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1939

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YEARBOOK
METEOROLOGICAL
UNITED STATES

FOREWORD

Prior to 1935 this publication constituted the statistical sections of the Annual Report of the Chief of the Weather Bureau. The practice of publishing annual meteorological statistics in a separate volume, entirely disassociated from the Annual Report of the Chief of the Weather Bureau, was inaugurated in 1935 to avoid some duplication in printing but primarily to make printed meteorological matter more accessible to the public and to conform with similar publications of foreign nations.

The discussions and statistics presented herein concern principally the climatological phase of meteorology. Statistical data relating to the work of all the Divisions of the Weather Bureau are published currently in the Monthly Weather Review. From time to time special articles, based on the statistical data collected by the several Divisions of the Bureau, appear in the Monthly Weather Review and its supplements.

J. P. KOHLER, *Editor.*

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REVIEW OF THE WEATHER CONDITIONS DURING 1939

The warm weather that began during December 1938, continued through January 1939, but moisture was above normal generally between the Appalachian and Rocky Mountains. In February, conditions were, in several respects, in marked contrast to those which prevailed during the preceding months. Early February brought the beginning of a series of dense, cold polar air masses into the western half of the United States and the persistent mild weather gave way to abnormally low temperatures, continuing throughout practically the entire month. In the East, however, temperatures remained above normal, with only a few sharp, brief, cold spells. February had marked contrasts in temperature between the West and the East. Also, this month brought abnormally heavy precipitation to nearly all sections from the Rocky Mountains eastward. Heavy snows occurred in the Rocky Mountains, while the month closed with deep snow in a belt from eastern Colorado and Kansas northeastward over the upper Mississippi Valley where some of the heaviest February falls of record were reported. The late winter brought some heavy snowfall, also, to the higher elevations of the Northwest, with some mountain stations reporting up to 20 feet or more of snow on the ground during the first half of March.

Notwithstanding the abnormally low temperatures in February, the winter season, as a whole, had above normal temperature, except in parts of the far Southwest. Over the eastern half of the country and the Northwest the winter averaged from 2° to 4° warmer than normal. The lowest temperature reported was 51° below zero on February 21 at Meadowlands, Minn. The lowest reported in Alaska was 60° below at Fort Yukon on February 4.

While the winter brought generally abundant moisture, the spring was mostly dry, especially April and May. In March rainfall was scanty from Minnesota westward and April and May were decidedly dry throughout the Plains area. With scanty precipitation and abnormally high temperatures, the deficient moisture began to be felt rather severely over a wide area in the Great Plains and Mississippi and Ohio Valleys; by the middle of May another severe summer drought appeared in the offing. However, the latter part of May and June brought good rains to most of the eastern half of the country, which relieved droughty conditions practically everywhere. These rains were timely, and crops over the principal agricultural sections of the country responded nicely to the improved moisture conditions.

The summer (June–August) was somewhat warmer than normal, following a trend that has been in evidence for a good many years. In a few widely scattered localities the temperature averaged slightly below normal, but in general they were 1° to 4° above normal. An outstanding feature was the uniformity and persistence of warm weather during the summer season. California had the highest temperature recorded in each of the 3 summer months, in June 121°, and July 123°, both observed at Greenland Ranch on the edge of Death Valley. In August the highest was 122° at Cow Creek on the 17th.

Except in the northeastern States from Pennsylvania northward, summer rainfall was above normal generally east of the Mississippi River, but the western half of the country had deficient moisture, the deficiencies centering in Colorado where only half the normal was received. In the northeastern States severe drought prevailed in July, with some localities having the greatest rainfall deficiencies in half a century. However, August brought fairly good showers, which relieved the situation to a considerable extent.

During the last half of August a long period of markedly deficient rainfall began over large areas, most pronounced in the interior valleys and the Great Plains. Because of the persistent dryness and abnormally high temperatures, depleting scanty soil moisture, conditions became outstandingly unfavorable for the preparation of seed beds and the seeding of winter wheat. There was very little subsoil moisture in the western wheat belt and in large areas the topsoil became so dry that germination was impossible. About the first of October beneficial rains occurred from the middle and upper Missisippi Valley eastward, but the western wheat belt continued extremely dry. September was the driest of record over a large interior area.

Abnormal warmth and deficient rainfall continued through the following 2 months, being one of the most severe fall droughts on record, centering in the Midwest. Nebraska had only

26 percent of normal for the 3 fall months, followed closely by Kansas with 29 percent, and Iowa with 36 percent. December continued warm, except toward the close there was a reaction to much colder weather.

Chart 1, page 133, shows that the year was almost uniformly warm, with only local areas in the Northeast, upper Lakes, and on the Gulf coast reporting subnormal temperature. The region of greatest warmth was the Great Plains where the departures were generally from 3° to 4° above normal. Chart 2, page 134, shows the distribution of precipitation in inches for the growing season of 1939, and chart 3, page 135, the relation of this precipitation to the normal. The latter chart shows that an excess in precipitation occurred only in eastern sections, with much of the central and lower Great Plains averaging from 4 to 8 inches less than usual. The total for the year is shown in chart 4, page 136.

TABLE 1.—*Monthly and annual temperature departures from normal for the year 1939*

	January	February	March	April	May	June	July	August	September	October	November	December	Year
1. Alabama	+4.6	+4.7	+3.6	−0.9	−0.3	+0.8	+0.6	−1.1	+1.6	+2.2	−2.0	+2.2	+1.3
2. Alaska	−.3	+4.0	−2.6	+3.6	−.5	+.7	+.3	−1.2	+.1	−2.8	−3.2	+7.2	+.4
3. Arizona	+.2	−8.9	−.3	+2.3	+1.6	−.2	+1.1	+.7	−.7	−1.4	+2.5	+4.8	+.1
4. Arkansas	+4.1	.0	+2.7	−2.1	+.2	+.7	+1.5	+.1	+5.4	+2.7	−2.5	+2.7	+1.3
5. California	−.1	−5.5	−1.1	+2.7	+.3	−1.1	−.7	+.8	+1.4	−.3	+1.2	+3.5	+.1
6. Colorado	+1.9	−7.9	+1.0	+2.3	+3.6	+.8	+2.5	+.9	+3.6	+1.1	+2.5	+6.6	+1.6
7. Florida	+1.6	+5.6	+2.8	+.8	−.7	+.5	.0	−1.3	+.9	+1.6	−2.1	−.5	+.8
8. Georgia	+2.4	+5.5	+2.4	−.6	−1.1	+1.4	+.4	−1.2	+1.4	+2.0	−1.9	+.9	+1.0
9. Hawaii	+1.1	+1.6	+.6	+.1	+.1	−.8	−.6	−.3	−.6	−.1	−.7	+.1	.0
10. Idaho	+3.7	−5.3	+1.1	+2.7	+3.1	−2.6	+.7	+1.3	+1.4	+.3	+2.8	+7.8	+1.4
11. Illinois	+6.6	+.7	+2.6	−2.7	+3.4	+1.5	+.2	−1.0	+4.5	+2.4	−.2	+4.7	+1.9
12. Indiana	+5.4	+1.7	+2.2	−3.0	+2.9	+2.1	−.5	+.3	+4.7	+2.8	−1.3	+3.2	+1.7
13. Iowa	+10.1	−2.0	+1.8	−.9	+6.3	+1.8	+1.6	−1.5	+5.4	+1.8	+3.6	+8.3	+3.0
14. Kansas	+8.4	−2.6	+2.1	−.2	+4.6	+1.5	+4.3	+.2	+5.7	+3.9	+1.1	+5.9	+2.9
15. Kentucky	+4.4	+3.2	+3.0	−2.5	+.9	+1.2	−.6	−.5	+3.9	+2.7	−2.8	+1.1	+1.2
16. Louisiana	+3.5	+2.5	+2.0	−1.0	−.4	+.6	+.9	+.1	+1.9	+1.3	−2.2	+3.0	+1.0
17. Maryland-Delaware	+1.4	+6.0	+1.8	−.5	+2.6	+2.7	−1.4	+3.0	+1.5	+1.1	−1.6	+2.4	+1.6
18. Michigan	+3.0	+.4	−.9	−2.2	+3.5	+2.3	+1.5	+2.4	+1.9	+.1	+.1	+5.8	+1.5
19. Minnesota	+5.9	−7.1	−1.4	−2.6	+5.5	+.7	+1.6	+1.2	+4.2	−1.5	+5.8	+10.7	+1.9
20. Mississippi	+3.0	+2.7	+2.8	−1.9	−.3	+.7	+.9	−.2	+2.9	+1.7	−2.9	+1.8	+.9
21. Missouri	+8.0	−.1	+3.1	−1.8	+2.9	+1.0	+2.0	−1.1	+6.1	+3.6	−.9	+4.6	+2.3
22. Montana	+8.9	−6.2	+2.1	+2.7	+3.8	−4.0	+2.1	+1.2	+2.4	+.3	+5.7	+8.7	+2.3
23. Nebraska	+8.9	−4.6	+3.2	+.3	+6.6	+.9	+4.7	+.3	+5.2	+2.0	+3.4	+7.7	+3.2
24. Nevada	+3.0	−5.8	+2.2	+4.0	+3.5	+.4	+1.5	+2.7	+1.7	+.6	+3.1	+7.9	+2.1
25. New England	−.8	+2.7	−4.5	−3.4	+.1	−.1	+.2	+3.8	−.5	.0	−3.1	+.5	−.4
26. New Jersey	.0	+5.8	+1.0	−1.4	+2.9	+2.0	−.3	+3.5	+.6	+.2	−2.1	+1.5	+1.1
27. New Mexico	−.3	−8.2	+.6	+1.3	+1.2	+.9	+.2	−.2	+1.8	−.8	−.5	+3.9	.0
28. New York	+.2	+4.1	−2.2	−2.5	+2.5	+1.0	+.4	+4.0	−.9	.0	−3.0	+1.4	+.4
29. North Carolina	+1.9	+5.7	+3.1	+.1	−.4	+3.2	−.6	.0	+1.8	+2.7	−3.0	−.3	+1.2
30. North Dakota	+8.7	−10.2	−.5	+.2	+6.5	−2.4	+3.7	+2.1	+2.1	−2.5	+8.2	+13.7	+2.5
31. Ohio	+4.8	+3.4	+1.9	−2.6	+3.2	+3.0	−.8	+1.0	+4.4	+2.6	−1.1	+3.3	+1.9
32. Oklahoma	+5.9	−2.1	+3.4	−.5	+3.1	+1.4	+2.5	+.7	+5.7	+4.1	−1.3	+5.3	+2.4
33. Oregon	+3.0	−2.9	+1.4	+3.0	+2.3	−2.2	+1.1	+1.5	+2.1	+.1	+.8	+5.8	+1.3
34. Pennsylvania	+1.8	+5.3	+.9	−1.9	+3.2	+1.8	−.5	+3.0	+1.7	+1.0	−1.6	+2.6	+1.4
35. South Carolina	+2.3	+5.8	+3.1	+.1	−1.1	+3.1	+.2	−.4	+1.8	+2.8	−3.4	+.2	+1.2
36. South Dakota	+8.9	−7.9	+2.6	+.3	+7.8	−.1	+4.4	+1.0	+3.9	+.1	+5.8	+10.0	+3.1
37. Tennessee	+3.5	+3.4	+2.7	−2.0	+.1	+1.6	+.7	−.2	+3.7	+3.2	−2.7	+1.5	+1.3
38. Texas	+2.7	−2.8	+2.2	+.5	+2.2	+1.2	+1.4	−.5	+2.3	+1.8	−3.0	+3.5	+1.0
39. Utah	+1.4	−9.6	+.8	+3.6	+2.7	−.5	+.7	+1.2	+1.1	+.5	+3.2	+7.3	+1.0
40. Virginia	+2.6	+5.9	+2.0	−.6	+1.3	+3.1	−1.3	−.9	+1.7	+1.5	−2.4	+1.5	+1.2
41. Washington	+5.8	−2.2	+.5	+2.4	+1.9	−2.0	+.9	+2.0	+2.1	+.6	+2.9	+6.5	+1.8
42. West Indies	+.6	−1.0	−1.1	−1.1	−.6	−.6	+.1	.0	+.5	+.4	+.6	+.5	−.1
43. West Virginia	+3.6	+5.6	+2.4	−1.8	+1.8	+3.0	−1.1	+.9	+2.3	+1.3	−2.4	+2.0	+1.5
44. Wisconsin	+6.8	−2.6	−.7	−2.8	+4.3	+1.2	+1.4	+1.0	+2.1	.0	+2.3	+8.3	+1.8
45. Wyoming	+4.0	−8.0	+2.4	+3.5	+4.3	−2.2	+2.0	−.5	+2.1	+1.2	+3.4	+8.0	+1.7

TABLE 2.—*Percentage of normal precipitation, 1939*

	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1. Alabama	99	194	87	82	139	146	89	233	119	14	26	67	108
2. Alaska	126	116	103	131	114	104	126	160	128	131	114	140	127
3. Arizona	84	94	65	88	12	11	51	103	335	55	136	29	89
4. Arkansas	145	258	78	146	96	110	88	68	53	55	91	58	104
5. California	67	54	81	32	99	38	114	70	370	87	17	66	91
6. Colorado	171	112	88	51	54	59	41	55	83	50	32	51	71
7. Florida	59	73	50	151	124	138	105	153	85	71	62	78	96
8. Georgia	92	187	91	101	119	106	84	137	78	12	30	78	93
9. Hawaii	119	120	134	154	94	117	111	78	72	161	105	45	109
10. Idaho	81	121	74	50	49	107	113	27	98	101	16	122	80
11. Illinois	137	156	109	148	58	126	103	141	20	79	48	50	98
12. Indiana	133	172	106	166	38	160	125	78	25	100	47	45	100
13. Iowa	80	162	103	76	51	114	84	133	22	62	31	52	81
14. Kansas	118	121	119	76	62	115	43	111	11	30	63	95	80
15. Kentucky	127	232	123	153	34	143	117	77	43	78	33	59	102
16. Louisiana	116	124	60	52	146	95	97	96	83	66	88	77	92
17. Maryland-Delaware	111	169	114	141	32	167	93	116	78	125	51	58	105
18. Michigan	119	160	81	107	74	158	58	169	81	94	33	70	100
19. Minnesota	163	193	51	70	73	127	71	122	49	83	5	52	88
20. Mississippi	136	166	95	80	125	163	92	66	100	44	41	77	99
21. Missouri	123	158	97	129	87	117	77	123	20	66	99	71	97
22. Montana	74	107	73	70	90	143	49	57	71	81	23	110	79
23. Nebraska	127	121	110	57	72	102	55	72	21	42	5	100	74
24. Nevada	81	77	97	101	83	39	167	67	327	193	46	43	110
25. New England	78	107	122	137	53	98	61	103	76	134	31	94	91
26. New Jersey	111	154	128	142	38	96	49	148	42	124	58	42	94
27. New Mexico	248	86	101	99	63	52	96	71	114	79	94	94	100
28. New York	98	140	105	113	48	85	60	76	93	107	53	99	90
29. North Carolina	109	191	90	99	69	93	132	126	36	66	72	66	96
30. North Dakota	100	137	51	60	66	134	72	101	43	71	5	54	74
31. Ohio	92	166	121	160	34	173	109	60	70	118	35	53	99
32. Oklahoma	191	124	86	72	79	139	55	89	11	57	71	64	86
33. Oregon	76	114	81	22	61	87	109	83	53	105	14	146	79
34. Pennsylvania	97	150	104	108	41	107	73	71	85	119	34	71	88
35. South Carolina	87	207	89	103	95	86	105	129	53	27	46	76	92
36. South Dakota	173	118	31	48	78	118	71	84	61	88	1	51	77
37. Tennessee	128	225	93	111	81	141	87	79	44	44	44	72	96
38. Texas	161	100	50	48	85	98	99	91	38	54	88	73	82
39. Utah	115	105	68	66	70	116	61	63	261	119	15	37	91
40. Virginia	106	169	85	95	74	109	139	127	37	108	90	62	100
41. Washington	116	121	74	38	76	104	129	57	46	88	50	139	86
42. West Indies	57	71	104	76	69	67	81	96	79	108	113	81	85
43. West Virginia	99	183	107	153	34	143	127	54	76	117	35	74	100
44. Wisconsin	157	150	57	90	76	134	57	111	72	75	19	64	88
45. Wyoming	100	112	58	60	74	106	62	71	81	73	1	55	71

JANUARY

For the country as a whole January 1939 was characterized by abnormally warm weather with only two limited areas reporting subnormal temperatures. In much of the country the plus departures were unusually large and, in fact, from the middle Mississippi Valley and the lower Great Plains northwestward it was one of the warmest Januarys of record. At one station it was the second warmest January of record and at another, the warmest since 1880.

Precipitation was above normal in nearly all sections between the Appalachian and Rocky Mountains, except for small areas in the upper Mississippi Valley and northwestern Great Plains. In a considerable area of the Southeast the month was comparatively dry, while in most sections west of the Rocky Mountains less than normal rainfall was received. A large area from South Dakota and southeastern Wyoming southward had abnormally heavy precipitation.

FEBRUARY

This month was, in some respects, in marked contrast to the preceding months as the persistent mild weather gave way to abnormally low temperatures. This condition prevailed during practically the entire month, with almost continuously low temperatures in the Northwestern and Western States. East of the Mississippi River the weather continued generally much warmer than normal, except for a few sharp brief cold spells.

Abnormally heavy precipitation prevailed nearly everywhere from the Rocky Mountains eastward. Much of the Southwest, including mostly western Texas, eastern New Mexico, and parts of Oklahoma, had deficient precipitation. Elsewhere it was far above normal. Heavy snows occurred in the Rocky Mountains, with some of the heaviest February falls of record.

MARCH

March was characterized by abnormal warmth, with mean temperatures above normal everywhere, except in a limited northeastern area and locally in the West. From the Ohio and lower Missouri Valleys southward the plus departures were from 3° to 6° and like conditions prevailed in the northern Great Plains. Departures were generally 2° or less from the Rocky Mountains westward.

Precipitation was unequally distributed. Most of the South had much less than normal and the northern Great Plains had but little. However, in an east-west belt across the south-central Plains there was more than normal precipitation. The southern Rocky Mountains had unusually heavy falls, but the far Southwest was very dry. Much of the country west of the Rocky Mountains was dry, while from the central Mississippi Valley eastward most sections had above-normal precipitation.

APRIL

Temperatures were generally subnormal from the Mississippi Valley eastward, except for a small section along the central and south Atlantic coast. Throughout the Great Plains temperatures were fairly close to normal, but in most areas from the Rocky Mountains westward, the month was from 4° to as much as 7° warmer than usual. The relatively warmest section included the western Great Basin and Great Valley of California.

Precipitation was abnormally heavy in the central Ohio Valley, portions of the lower Missouri Valley, and along the middle Atlantic coast. The month was also wet in portions of the Southwest, including most parts of New Mexico, southeastern Colorado, and the Panhandle of Texas. Precipitation was abnormal in the eastern Cotton Belt, the southern Great Plains and from the central Rocky Mountains westward and northwestward.

MAY

May temperatures averaged slightly below normal in a limited southeastern area, the lower Mississippi Valley and the Northeast. Elsewhere the monthly averages were above normal, decidedly so in the lower Lake region and northern Ohio Valley and rather generally from the upper Mississippi Valley and Great Plains westward. The greatest plus departures from normal occurred in the upper Mississippi Valley and in Central and Northern States from the Great Plains westward.

Precipitation was relatively scanty in the Middle Atlantic States, the Ohio Valley, the upper Mississippi Valley, much of the Great Plains, a considerable southwestern area from western Texas westward to the Pacific Ocean, and in the interior of the Pacific Northwest.

JUNE

Temperatures during this month averaged above normal throughout the southern half of the country, as well as in interior valleys, the Lake region, and the middle Atlantic area. The monthly means were slightly below normal locally in the Northeast and in a considerable Northwestern area, with the largest minus departures in western North Dakota and Montana.

A few localities in the west Gulf area, Mississippi Valley, the Southeast, and Northeast had below-normal rainfall; otherwise east of the Great Plains the monthly totals were above normal. Rainfall was heavy in the western Lake region, the Ohio Valley, and much of the southern Great Plains. The northwestern Plains received considerably more than normal, but the extreme western Plains, the central and southern Rocky Mountain area, and the Great Basin had scanty amounts.

JULY

Virginia and parts of the adjoining States had monthly mean temperatures slightly below normal in July, but elsewhere there was a general tendency to above-normal. Plus departures ranged from 4° to 8° from western Arkansas, Oklahoma, and northwestern Texas northward and in this area temperatures were persistently high throughout nearly the entire month.

From the Mississippi River to and including the Rocky Mountain States precipitation was deficient, decidedly so in the Great Plains and the eastern foothills of the Rockies. Some interState localities in this area had less than 10 percent of the monthly normal. In the Northeast the amounts were decidedly scanty, with some local areas having only about 10 percent of normal. The Ohio Valley had above normal, as did most of the South Atlantic States, and much of the far West.

AUGUST

Temperatures in August were above normal in almost the entire country. A few local areas, principally in the Southeast and the middle Mississippi and lower Missouri Valleys had slightly

below normal, but otherwise the monthly means were approximately normal to considerably above. In most sections the plus departures were moderate, except from the Lake region eastward and over the Northwest where the month was from 3° to 6° warmer than normal.

Rainfall was very unevenly distributed with wide variations in contiguous sections. The monthly totals were above normal in the Atlantic area, the upper Mississippi Valley, and upper Lake region, as well as locally ln the Great Plains, the Rio Grande Valley, and the Pacific Northwest; otherwise the month was drier than normal, especially in the Rocky Mountain and Great Basin areas.

SEPTEMBER

September was characterized by abnormally high temperatures that persisted until the last week of the month when abnormally cool weather overspread the Northwest. In the interior, between the Appalachian and Rocky Mountains, the plus departures ranged from 4° to 8° above normal, while the bulk of the country had average temperatures in excess of 2° above normal.

One of the most severe and widespread droughts of record developed throughout the Plains States and central valley districts and, despite some late-month showers, it was the driest September of record in some interior sections. In contrast, the south Pacific area had abnormally heavy rains, especially southern California and New Mexico. The relatively driest areas were the upper Mississippi and lower Missouri Valleys and the central and southern Plains States.

OCTOBER

The temperature for this month was above normal in all sections except a narrow strip from the upper Lake region westward to North Dakota. Over a broad belt from the Southeast westward over the Central Plains the monthly means were from 3° to 6° above normal. The Northeastern States and a large southwestern area had about normal warmth, except that southern California was extremely warm.

Precipitation was unevenly distributed, but much the greater portion of the country had subnormal amounts. Abundant rains occurred in the Northeast and much of the Great Basin, but it was one of the driest Octobers of record in the Southeast, where considerable areas had less than 10 percent of normal rainfall. Another area of marked deficiencies was the southern Great Plains where some stations reported no measurable rainfall during the month.

NOVEMBER

Temperatures averaged somewhat subnormal in the Eastern States and throughout most of the South, but they were abnormally high rather generally from the Mississippi Valley westward. In the former areas temperatures were from 1° to 3° below normal, while in the latter sections they were from 3° to as many as 12° warmer than usual; the largest excesses of the month occurred in the northern Great Plains.

Less than half the normal precipitation occurred in most sections from the Ohio Valley southward and northeastward, with considerable areas having less than one-fourth the normal amount. From the upper Mississippi Valley westward to the Rocky Mountains there was also little or no precipitation during the entire month. The southern Great Plains continued very dry and extreme dryness obtained west of the Rocky Mountains, except very locally.

DECEMBER

Notwithstanding the low temperatures that overspread most of the country the latter part of December, this month, as a whole, was abnormally warm throughout practically the entire country; only a few scattered sections reported slightly below normal temperatures. In the Ohio Valley and Lake region and generally west of the Mississippi River, temperatures for the month averaged from 5° to as many as 20° above normal, the greatest plus departures being in the northern Great Plains.

Precipitation was above normal in the extreme Southeast, parts of southern Texas, the central Great Plains, and the far Northwest. Otherwise, except for limited areas, the month was generally deficient in precipitation; the upper Mississippi Valley, northern Ohio Valley, and northeastern Plains had generally less than half the usual amount. The Southwest was also seriously lacking in precipitation, especially Arizona where no measurable amounts were recorded.

PRECIPITATION FOR THE YEAR 1939

Rainfall for the year was approximately normal to somewhat above, rather generally from the Mississippi Valley eastward. West of the Mississippi all States except Arkansas had below-normal precipitation for the year, the relatively driest being Colorado with only 65 percent of

normal, followed closely by California with 67 percent. The relatively driest of the Great Plains States were Nebraska with 69 percent and Kansas 75 percent of normal.

Alabama with 59.33 inches had the most rainfall for the year and Nevada 8.45 inches, the least, though this was only slightly below normal. The total yearly falls in the Great Plains and Central Rocky Mountain States were as follows: North Dakota, 14.15 inches, the smallest since 1936; South Dakota, 15.71, also the smallest since 1936; Nebraska 16.28, and Oklahoma 20.08. Colorado had only 10.68 inches, somewhat less than the previous driest year of record, 10.89 in 1934. The average for Wyoming was 9.48 inches, also somewhat lower than the previous driest year, 9.81 inches in 1902. The California average, 15.85 inches, was the least since 1932.

There was considerable variation of rainfall from season to season. The winter was abnormally wet rather generally in the eastern United States and in the Southwest, with much the greater portion of the country having above-normal precipitation. Heavy snows occurred in most western mountain sections the latter part of the season.

The spring was decidedly dry, with only a few States from the Mississippi Valley eastward having somewhat more than normal rainfall. From the Great Plains westward all States had deficiencies.

The summer was relatively wet east of the Great Plains, except in the Northeast, but rainfall was deficient in nearly all sections from the Great Plains westward. The fall season was extremely dry over large areas, although precipitation was decidedly above normal in Utah, Colorado, and Arizona. From the Rocky Mountains eastward it was the driest fall of record, considering the area as a whole.

Table 3 below shows the distribution of annual rainfall in percent of normal for the 42 climatic sections in the United States for the last 9 years.

TABLE 3.—*Percentage of normal precipitation by States*

State or region	1931	1932	1933	1934	1935	1936	1937	1938	1939	State or region	1931	1932	1933	1934	1935	1936	1937	1938	1939
Alabama	81	121	91	104	93	113	111	92	112	Nevada	89	92	75	79	96	116	101	134	97
Arizona	144	100	86	78	112	103	99	101	93	New England	99	105	107	103	93	119	114	122	92
Arkansas	97	105	101	88	117	72	114	102	104	New Jersey	81	103	109	99	93	105	105	116	95
California	103	66	86	76	94	111	123	128	67	New Mexico	126	112	88	70	102	94	104	101	91
Colorado	85	86	92	66	96	98	88	117	65	New York	97	108	96	90	97	103	112	106	88
Florida	83	100	106	101	99	109	111	82	103	North Carolina	88	105	79	108	97	121	107	97	99
Georgia	74	114	84	96	90	118	106	85	99	North Dakota	87	99	77	55	105	52	99	89	82
Idaho	83	111	100	89	72	96	116	113	79	Ohio	99	97	99	70	104	88	117	105	100
Illinois	102	98	94	88	112	82	99	109	96	Oklahoma	96	104	93	84	112	67	85	101	81
Indiana	97	108	103	75	100	86	117	104	99	Oregon	94	102	108	99	78	89	133	101	79
Iowa	112	102	79	85	105	82	87	115	80	Pennsylvania	88	92	107	92	95	100	110	95	87
Kansas	97	89	83	74	106	69	78	102	75	South Carolina	78	113	75	95	89	122	109	85	97
Kentucky	92	97	111	81	126	83	109	101	104	South Dakota	73	96	76	66	85	58	86	88	79
Louisiana	94	112	98	106	102	82	106	90	92	Tennessee	86	119	102	95	100	95	112	100	100
Maryland-Delaware	94	115	120	112	116	107	126	101	106	Texas	95	110	84	87	121	102	87	88	80
Michigan	97	108	99	83	93	89	101	103	99	Utah	79	105	83	74	85	132	115	118	90
Minnesota	89	86	83	80	102	73	102	113	87	Virginia	91	107	95	110	112	109	128	101	99
Mississippi	98	127	94	100	96	84	104	92	102	Washington	121	127	136	110	84	93	125	84	91
Missouri	100	94	90	85	118	73	93	102	95	West Virginia	99	102	113	87	119	98	116	99	101
Montana	66	106	103	73	71	75	85	109	84	Wisconsin	98	83	89	100	100	84	90	137	87
Nebraska	83	89	85	61	97	62	75	95	69	Wyoming	82	95	87	78	87	94	110	108	73

TORNADOES, 1939

The tornadoes of 1939 are described individually in table 7, page 9, grouped by States in chronological order. As these reports were furnished by the several sections directors, accounts have appeared previously in Climatological Data and the Monthly Weather Review. The previous accounts of these storms may be modified by later information, so this compilation does not necessarily agree closely with previous tabulations.

GENERAL SYNOPSIS

During 1939 only 24 States reported tornadoes, while the annual total of 154 is below that of 1938, even though exceeding the average number by 13. No tornadoes were reported west of the Great Plains, while the eastern Ohio Valley and the North Atlantic coast were also free from tornadic winds.

The total loss of life reported was 87, or considerably below the 1916–39 average of 254, while the property damage of $5,891,930 is also below the period average. The greatest loss of life occurred in April, with 50 persons killed, and of these 27 were killed in a single storm on April 16, in Arkansas.

The total number of injured was 945; April had the greatest total with 312, while June with 282 injured followed closely. The totals of killed or injured are, necessarily, estimates, as many reported only "some injuries" or other indefinite statements.

The property loss mentioned above, in excess of $5,000,000, is also liable to question as the figures cannot always give the exact figure of the monetary loss. In many instances reports

were made of "some loss to farm property" etc., and the given figures represent the best estimate available. Of the total estimated damage of $5,891,930, approximately $285,900 represents direct damage to crops. Since 1936, property damage has been less than $10,000,000 a year, each year being well below the 1916-39 average.

Table 4 shows the amount of damage to crops and real property by months for 1939. The greatest amount of damage was in August with a total loss of $1,964,300, followed closely by June with $1,722,030. In each of these months the major loss occurred in a single State. In August the total for Michigan was $1,725,000, while in June the total for Minnesota was $1,200,000.

TABLE 4.—*Tornado destruction in dollars, by months, during 1939*

State or section	January	February	March	April	May	June	July	August	September	October	November	December	Crop	Property	Total
Alabama	60,000	8,000	13,000	66,000										147,000	147,000
Arkansas		28,500	150,000	[c](1) 116,400									(1)	294,900	[4] 294,900
Florida		[c](2) 1,250	30,000		[c](1) (1)	600		[c](1) (1)					(4)	31,850	[4] 31,850
Georgia	[c](1) 500	[c] 1,000	25,000	[3] [c] 1,000									[4] 27,000	133,500	[4] 160,500
Illinois						[c] 9,500 162,750		[c] 500 2,000					10,000	164,750	174,750
Indiana						[c] 5,000 53,000			1,000				5,000	54,000	59,000
Iowa					2,600	[c](1) 14,330		[c] 6,000 113,300		[c]15,000 45,000			[4]21,000	175,230	[4] 196,230
Kansas				10,200	32,800	6,050	[3] 2,500	(2)		5,500			(4)	[4] 57,050	[4] 57,050
Louisiana	10,000			[c](2) [3]92,000		300							(2)	102,300	[4] 102,300
Maryland							2,500	9,500	50,000					62,000	62,000
Michigan						[c] 5,000 162,000		[c] 110,000 1,615,000					115,000	1,777,000	1,892,000
Minnesota						[c](2) 1,200,000	[c](2) 51,000						(2)	1,251,000	[4]1,251,000
Mississippi		200,000		11,000	800									211,800	211,800
Missouri				12,000		[c] 3,000 38,000	[c] 400 2,500						3,400	52,500	55,900
New York					20,000									20,000	20,000
North Carolina			50,000					3,000						53,000	53,000
North Dakota					[c](2) 90,000								(2)	90,000	[4] 90,000
Oklahoma				[c](2) 104,000									(2)	104,000	[4] 104,000
Pennsylvania		10,000				28,000								38,000	38,000
South Carolina		136,000		4,350	[c](2) 5,000	[c](2) 6,500		[c](2) 5,000					(2)	156,850	[4] 156,850
South Dakota					2,500	500	18,000							21,000	21,000
Tennessee	40,000							(2)	[c](2) [5]5,000				(2)	[4] 45,000	[4] 45,000
Texas	4,000	6,000	[1] [3]12,000	[c] 2,000 [3]141,800	[3] [c] 500 [6]368,500	[c](1) 27,500	[4] 1,500						[4] 2,500	[4] 561,300	[4] 563,800
Virginia							[c]2,000 2,000	[5] 100,000					102,000	2,000	104,000
Crops	(4)	[4] 1,000	25,000	[4] 3,000	[4] 500	[4] 22,500	[4] 2,400	[4] 216,500	(4)	15,000			285,900		
Real property	114,500	417,750	[4] 260,000	[4] 657,750	[4] 522,200	1,699,530	80,000	1,747,800	[4] 56,000	50,500				5,606,030	
Total	114,500	418,750	285,000	660,750	522,700	1,722,030	82,400	1,964,300	56,000	65,500					5,891,930

[5] Crop damage.
[1] Damage small.
[2] Damage occurred; no estimate obtained.
[3] Additional losses occurred; no estimate obtained.
[4] See monthly reference for qualifying remarks.
[5] Includes damage to crops.
[6] Includes damage by hail.

SYNOPSIS BY STATES

Twenty-four States reported tornadoes in 1939. No tornadoes were reported in the States west of the Great Plains, with the following also indicating no tornadoes for the year: Nebraska, Wisconsin, Ohio, Kentucky, West Virginia, New Jersey, and the New England group.

Table 5 shows the number of deaths and injuries from tornadoes for 1939. May had the greatest number of deaths, 50, with 27 of these occurring in a single storm.

TABLE 5.—*Deaths and injuries incurred by tornadoes during 1939*

State	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Alabama	0	20	2	14	0	13	2	21																	4	68
Arkansas			0	3	1	21	30	100																	31	124
Florida			0	0	4	[1] 3			0	0	0	0			0	0									4	[2] 3
Georgia	0	0	2	44	0	1	1	33																	3	78
Illinois											0	12			0	0									0	12
Indiana											0	0					0	0							0	0
Iowa									0	0	0	0			0	7			0	1					0	8
Kansas							0	0	0	0	0	2	0	0	0	0			0	0					0	2
Louisiana	2	2					8	69			0	0													10	71
Maryland													0	0	1	4			0	1					1	5
Michigan											0	12			2	93									2	105
Minnesota											10	223	0	0											10	223
Mississippi			0	32			0	3	0	0															0	35
Missouri							0	6			0	4	0	1											0	11
New York									1	5															1	5
North Carolina					0	3									1	2									1	5
North Dakota									0	0															0	0
Oklahoma							7	19																	7	19
Pennsylvania			0	0							0	0													0	0
South Carolina			0	7			0	0	1	6	0	3			0	0									1	16
South Dakota									1	1	0	0	0	0											1	1
Tennessee	4	20													0	0	1	6							5	26
Texas	0	2	0	1	0	1	2	61	2	[1] 29	1	26	0	0											5	[2] 120
Virginia													0	0	1	8									1	8
Total	6	44	4	101	5	42	50	312	5	41	11	282	0	1	5	114	1	6	0	2					87	945

[1] Several others reported; number indefinite.
[2] See monthly reference for qualifying remarks.

BOUNDARY-CROSSING TORNADOES

From the data collected, it was established that 3 of the 154 tornadoes of 1939 crossed State boundaries. The first, chronologically, occurred on April 14–15 in Oklahoma. The storm was first noted at 11 p. m., April 14 in northwestern Dewey County; from there it moved in a roughly northeasterly direction, crossing Woodward, Major, and Woods Counties, dissipating just across the Kansas line at 12:15 a. m. on the 15th. The total length of the path was approximately 65 miles, but the path was narrow. This tornado killed 7 persons, injured 19, and caused a property damage of $104,000. Many homes were destroyed near Waynoka, Hopeton, and Alva, while the entire business section of Capron was demolished.

The second tornado occurred on June 10 in Illinois. This storm was first noted at 3:30 p. m. in eastern Iroquois County, Ill., crossed the State line and parts of Benton and Newton Counties, Ind., and finally dissipated at 4 p. m. in southern Newton County. The total length of its path was about 40 miles, and its width varied from 200 to 450 yards. No deaths resulted from this tornado and, while 12 persons were injured in Illinois, none was harmed in Indiana. The total damage in Illinois was about $132,250, and in Indiana about $55,000.

The third tornado occurred in Virginia on August 19. This tornado originated in eastern Northumberland County, Va., at 12:30 a. m. August 19, and dissipated in extreme southeastern St. Marys County, Md., at 2 a. m. Its total length of path was approximately 15 miles and its width varied from 100 to 200 yards. The total damage caused by this storm was largely to crops and probably did not exceed $20,000.

MAJOR 1939 TORNADOES

Two outstanding tornadoes, as regards loss of life and property damage, occurred during 1939. The first, reported on June 18 in Hennepin and Anoka Counties, Minn., was classed as a major destructive storm. It was first noted at 3:10 p. m. and dissipated at 3:40 p. m., moving 25 miles in a general northeasterly direction, with a path averaging 250 yards wide. This storm resulted in 9 deaths and 222 injuries and caused $1,200,000 damage. The second, reported on August 8 in Kalamazoo County, Mich., was first reported at 2:45 p. m. and dissipated at 3:15 p. m. It moved in a generally northeasterly direction over a path 20 miles long and about 120 yards wide. The storm caused 2 deaths and injured 75 and caused a loss of $1,050,000. The April 16 storm in Drew County, Ark., caused a loss of 27 lives and injured 62, but the property loss was small, amounting only to $20,000.

SUMMARY FOR PAST YEARS

Table 6 gives the total number of tornadoes, deaths resulting from such storms, and the estimated property losses for the years 1916–39.

TABLE 6.—*Deaths and property losses caused by tornadoes, 1916–39*

Year	Reported	Aggregate loss of life	Aggregate reported property losses	Year	Reported	Aggregate loss of life	Aggregate reported property losses
	Number				*Number*		
1916	86	140	$2,511,500	1929	197	274	$10,049,400
1917	121	508	15,007,700	1930	192	179	12,289,100
1918	81	134	7,631,200	1931	94	36	3,215,400
1919	65	205	6,861,500	1932	152	394	8,988,525
1920	87	498	15,205,000	1933	200	362	16,190,640
1921	106	202	5,406,300	1934	147	47	4,424,950
1922	108	133	6,630,000	1935	182	70	4,732,930
1923	100	109	2,958,750	1936	159	552	26,228,550
1924	130	376	26,120,850	1937	148	29	3,155,875
1925	119	794	24,023,900	1938	220	183	8,796,257
1926	111	144	4,318,950	1939	154	87	5,891,930
1927	164	540	43,445,650				
1928	203	92	13,235,600	Total	3,386	6,088	277,320,457
				Average	141	253	11,555,019

ITEMS OF TABLE 7

Where two or more county names appear, the word "and" between them or before the last-named county, indicates that the tornado path began in the first and continued in the order named, and was confined to those counties, unless it was one of the few tornadoes that crossed a State boundary, in which case only the portion within the single State is indicated. Frequently braces are used, especially in cases where it is possible to present statistics for each county. Notations immediately after county names such as (N.), (NE.), (E.), and (E.-C.) indicate, respectively, north, northeast, east, and east-central, portions of the counties in which the disturbances occurred.

The direction of advance is usually entered to 8 points of the compass, but occasionally to 16 points when sufficient detail exists. If the tornado changed direction, the curvature of path is outlined by 2 directions separated by a hyphen.

The length of path of a "not continuous" storm is not the length devastated but the entire distances from first havoc to last. The width of the path is usually the mean width, but occasionally the width has varied sufficiently for the limits of variation to be given; that is, the minimum and maximum widths. It will be noted that in several instances the tornadic character of a storm is given as somewhat doubtful, but in these cases the presence of marked rotary winds over a rather narrow area was taken as sufficient evidence to classify the storm as a tornado.

TABLE 7.—*Tornadoes of 1939, arranged by States*

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
ALABAMA				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
1. Jan. 29	Afternoon	Shelby (SE.)	NE	(1)	(1)	0	(5)	(5)	Damage from all storms, tornadic and nontornadic, on this date was $60,000, with injuries to 20.
2. Jan. 29	Afternoon	Tuscaloosa (C.)	NE	(1)	(1)	0			
3. Feb. 15	(1)	Jefferson (NE.)	NE	(1)	(1)	1	4	6,000	
4. Feb. 20	(1)	Clay (E.-C.)	NE	(1)	(1)	1	10	2,000	
5. Mar. 30	(1)	Escambia (C.)	NE	(1)	(1)	0	7	8,000	
6. Mar. 30	(1)	Pike (C.)	NE	(1)	(1)	0	6	5,000	
7. Apr. 11	11:45 a. m	Shelby (S.-C.)	NE	(1)	100	1	1	30,000	
8. Apr. 17	1:15 a. m	Greene (S.)	NE	(1)	150	1	2	10,000	
9. Apr. 17	2 a. m	Tuscaloosa (C.)	NE	(1)	(1)	0	2	6,000	
10. Apr. 17	6:15 a. m	Cleburne (SE.)	NE	(1)	150	0	16	20,000	
ARKANSAS									
1. Feb. 9	8 p. m	Faulkner (W.)	NE	(4)	(3)	0	0	3,000	
2. Feb. 9	8–8:30 p. m	Sevier (SE.)	NE	5	(1)	0	0	500	
		Howard (S.)	NE	15	(3)	0	3	15,000	
		Pike (SW.)	NE	5	90	0	0	10,000	
3. Mar. 4	11 p. m–12 midnight	Carroll (C.)	NE-E	25	880	1	20	125,000	Dipped at intervals from Busch Mountain to Burlington. $75,000 property loss at Berryville, 40 to 50 homes damaged.
		Boone (W.)	E	5	(3)	0	(1)	20,000	
4. Mar. 30	P. m	Ashley (NW.)	N-NE	20	440	0	0	2,000	Damaged property; 500,000 feet of timber blown over.
5. Mar. 31	10 p. m	Baxter (C.)	E	(4)	33	0	1	3,000	
6. Apr. 5	8 p. m	Ouachita (SW.)	(1)	1–2	200	0	3	15,000	
7. Apr. 16	2 a. m	Crittenden (W.-C.)	SE	1–2	100	0	0	25,000	
8. Apr. 16	12:30 p. m	Hempstead (NW.)	NE	5	200	0	1	25,000	
9. Apr. 16	1:30 p. m	Union (N.-C.)	NE	(4)	200	0	3	15,000	Damaged several houses and oil derricks.
10. Apr. 16	1:30 p. m	Lafayette (N.)	NE	5	440	0	1	1,000	
11. Apr. 16	2 p. m	Lafayette (SW.)	NE	(4)	(3)	0	2	1,500	
12. Apr. 16	3:10 p. m	Drew (E.)	NE	22	440	27	62	20,000	Dipped three times over 22-mile path.

See footnotes at end of table.

TABLE 7.—*Tornadoes of 1939, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
ARKANSAS—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
13. Apr. 16	3:30 p. m.	Bradley (S.)	NE	3	150	0	0	5,000	
14. Apr. 16	3:30 p. m.	Jefferson (NE.)	N	1	200	2	21	3,000	
15. Apr. 16	4:30 p. m.	Cleveland (NE.)	NE	10	440	1	7	5,900	Property damaged and livestock killed.
FLORIDA									
1. Feb. 15	(1)	Polk (W.-C.)	NE	(1)	(1)	0	0	750	
2. Feb. 26	A. m.	Calhoun (ext. S.)	NE	(1)	167	0	0	[5] 500	Damage to crops, forests, and small buildings.
3. Mar. 30	10:10 p. m.	Duval (C.)	E	11	(5)	4	(5)	20,000	Width of path varied from 100 yards to 50 feet. Several injured.
4. Mar 31	7:22–7:28 a. m.	Volusia (ext. NE.)	(1)	2	33	0	3	10,000	
5. May 7	(1)	Saint Lucie (N.)	(1)	(1)	(1)	0	0	(5)	Trees uprooted and roofs damaged.
6. June 13	(1)	Hernando (C.)	(1)	(1)	440	0	0	600	
7. Aug. 4	(1)	Palm Beach (E.)	(1)	(1)	(1)	0	0	(5)	Property loss small.
8. Aug. 18	(1)	Nassau (W.)	(1)	(1)	(1)	0	0	(5)	Do.
GEORGIA [2]									
1. Jan. 5	3 p. m.	Glynn (C.)	E	12	(3)	0	0	500	Traveled slowly, touching ground 3 times. Violent winds. Small crop damage.
2. Feb. 3	9 a. m.	Heard (W.)	NE	5	100	0	4	[6] 1,000 5,000	
3. Feb. 6	12:35 p. m.	Fulton (S.)	E	2	100	0	0	8,000	Severe damage to factory at Union City, 25 miles south of Atlanta.
4. Feb. 25	11:30 p. m.	Early (W.) Clay (S.)	NE	12	200	2	8	12,000	Property destruction over 12-mile course.
5. Feb. 26	10:30 a. m.	Charlton (S.)	NE	6	(5)	0	32	3,000	Width of path varied from ¼ to 1½ miles.
6. Mar. 6	3 a. m.	Cobb (NW.)	NE	2	200–400	0	1	3,000	First of a series of tornadoes from Acworth almost to Gainesville.
7. Mar. 6	3 a. m.	Cherokee (S.) into Fulton (N.)	NE	10	400	0	0	(5)	Houses and smaller buildings damaged. $25,000 timber damage reported in Fulton County.
8. Mar. 6	3–3:30 a. m.	Forsyth (N.)	NE	25	200–880	0	0	2,000	Severe timber damage.
9. Apr. 11	1:30 p. m.	Fulton (N.)	NE	1	70	0	3	25,000	Several hundred dollars' crop damage.
10. Apr. 11	1:30–2 p. m.	Haralson (S.) Carroll (NE.)	E	15–20	100–400	1	30	[6] 1,000 75,000	18 houses demolished. 17 badly damaged.
ILLINOIS									
*1. June 10	3:30 p. m.	Iroquois (E.)	NNE	25	450	0	12	[6] 5,000 127,250	Passed into Indiana as No. 1.
2. June 19	1 p. m.	Mason (NE.)	NE	1	250	0	0	[6] 500 500	
		Tazewell (SW.)	NE	10	250	0	0	20,000	
3. June 21	3 p. m.	Winnebago (W.)	NE	3	400	0	0	[6] 4,000 15,000	
4. Aug. 2	3:30 p. m.	Macoupin (E.-C.)	ENE	7	200	0	0	[6] 500 2,000	Damage restricted mainly to strip ⅜ of a mile long where tornado dipped to ground.
INDIANA									
*1. June 10	4 p. m.	Benton (NW.) and Newton (S.)	NE	15	200	0	0	[6] 5,000 50,000	Large hail accompanied storm. Continuation of Illinois No. 1.
2. June 19	5 p. m.	Owen (C.)	NE	(4)	40	0	0	3,000	
3. Sept. 16	3:30 p. m.	Hamilton (C.)	NE	(1)	[7] 1	0	0	500	
4. Sept. 16	6:45 p. m.	Jay-Randolph County line.	E	(1)	880	0	0	500	
IOWA									
1. May 25	4:45 p. m.	Clinton (E.)	E	[8] 200	(3)	0	0	2,600	Damage to buildings and boats. Twisting action of wind but no funnel-shaped cloud.
2. June 2	2:30 p. m.	Winnebago (N.)	N	6	(3)	0	0	2,030	
3. June 7	4 p. m.	Marion (SW.)	E	7	200	0	0	1,000	
4. June 7	4:45 p. m.	Warren (C.)	E	6	100	0	0	10,800	
5. June 9	12 noon	Johnson (S.)	(1)	(1)	(1)	0	0	(1)	Small tornado touching at intervals, tore up a board fence and uprooted a few fruit trees.
6. June 14	9:30 a. m.	Keokuk (C.)	NW	(4)	10	0	0	500	
7. Aug. 10	3 p. m.	Shelby (E.-C.)	NNE	5	100–300	0	1	[6] 1,000 13,300	Damaged buildings on five farms.
8. Aug. 10	3:30 p. m.	Adair (C.)	NNE	12	400	0	1	10,000	Buildings on 6 farms destroyed.
9. Aug. 10	5 p. m.	Clark (C.) and Warren (S.)	NE-N	35	800	0	5	[6] 5,000 90,000	Irregular discontinuous course. Damage to crops, livestock, and many buildings.
10. Oct. 4	7:50 p. m.	Emmet (E.)	NNE	6	100–200	0	1	[6] 15,000 45,000	
KANSAS									
1. Apr. 14	9 p. m.	Comanche (N.)	NE	7	440	0	0	10,000	
*2. Apr. 15	Near 12:15 a. m.	Barber (S.)	NE	(4)	(3)	0	0	(5)	Continuation of Oklahoma No. 1, which terminated just north of Oklahoma-Kansas border; no damage reported in Kansas.

See footnotes at end of table.

TABLE 7.—*Tornadoes of 1939, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
KANSAS—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
3. Apr. 15	2:15 p. m.	Phillips (C.)	N	¼	100	0	0	200	
4. Apr. 17	10:40 a. m.	Sedgewick (C.)	SE	(5)	(5)	0	0	0	Storm did not touch ground.
5. May 6	7 p. m.	Hodgeman (S.)	NE	21	7 2	0	0	10,000	Damage to farm property.
6. May 6	6:45 p. m.	Hodgeman (C.)	NE	3	7 1	0	0	15,000	Do.
7. May 23	8:30–8:45 p. m.	Graham (E.) and Rooks (NW.)	NE	(1)	(1)	0	0	7,500	Tornado cloud not seen because of thick dust and path was ill-defined. Damage covered an area 25 miles long and 20 miles wide.
8. May 25	8:30 a. m.	Doniphan (N.)	N	3½	880	0	0	300	
9. June 8	6:30 p. m.	McPherson (SE.)	NE	2	200	0	2	5,000	
10. June 8	8 p. m.	Elk (N.)	NE	1	67	0	0	1,000	
11. June 20	12 noon	Phillips (N.)	(1)	440	100	0	0	0	
12. June 20	5:25 p. m.	Cloud (C.)	SE	67	17	0	0	50	
13. June 20	5:45 p. m.	Republic (SE.)	SE	5	(5)	0	0	(5)	Minor damage to buildings.
14. July 18	1:30 p. m.	Osage (C.)	S–SE	(5)	(5)	0	0	0	Funnel-shaped cloud plainly seen but did not reach ground.
15. July 18	2 p. m.	Shawnee (E.) and Jefferson (SW.)	NE	12	33	0	0	2,500	
16. July 24	P. m.	Wichita (C.)	(1)	(1)	(1)	0	0	(5)	Some damage but no estimate obtained.
17. Aug. 2	P. m.	Pratt (C.)	NE	(1)	(1)	0	0	(5)	Do.
18. Aug. 7	3:30 p. m.	Pawnee (S.)	(1)	(1)	(1)	0	0	(5)	Buildings on one farm damaged.
19. Oct. 4	10 p. m.	Anderson (C.)	NE	8	20	0	0	5,500	Path not continuous, but cloud plainly seen.
LOUISIANA									
1. Jan. 3	8:10 p. m.	Grant (NW.)	(1)	(1)	150	2	2	10,000	Passed through center of Montgomery wrecking several homes.
2. Apr. 5	12 midnight	Concordia (S.)	NE	2	117	0	12	10,000	
3. Apr. 16	2:10 p. m.	Claiborne (NW.)	NE	1½	200	8	37	75,000	37 homes destroyed, 15 damaged and 200 persons homeless at Haynesville.
4. Apr. 16	5:15 p. m.	Morehouse (E.)	NE	½	440	0	20	6,000	5 houses destroyed and 6 damaged at Bonita.
5. Apr. 16	10:30 p. m.	St. Bernard (W.)	NE	(1)	50	0	0	1,000	Damage to building in town of St. Bernard.
6. Apr. 16	(1)	La Salle (NW.)	NE	(1)	(1)	0	0	(5)	1 house and 2,000,000 feet of timber destroyed, value unknown.
7. June 1	9 p. m.	Terrebonne (N.)	(1)	(1)	(1)	0	0	300	Syrup mill demolished.
MARYLAND									
1. July 23	5 p. m.	Montgomery (S.)	S	10	7 2	0	0	2,500	Tornado mild. Several homes unroofed.
*2. Aug. 19	2 a. m.	St. Marys (ext. SE.)	N	5	100–150	1	4	9,500	Moved from Scotland to Dameron. Continuation of Virginia No. 2.
3. Oct. 21	7 p. m.	Baltimore (N.)	NE	10	880	0	1	62,500	1 house and many barns wrecked. Several homes damaged.
MICHIGAN									
1. June 10	6:30 p. m.	Kalamazoo (S.)	NE	(1)	(1)	0	2	6 1,000 75,000	
2. June 10	6:30–7:15 p. m.	Hillsdale (S.) and Lenawee (W.).	NE	(1)	(1)	0	3	6 4,000 50,000	
3. June 10	9:30 p. m.	Livingston (SE.)	NE	(1)	(1)	0	1	5 25,000	Small damage to crops. Tornado clouds not seen, perhaps because of darkness.
4. June 10	10 p. m.	Wayne (E.)	NE	(1)	(1)	0	6	5 7,000	
5. June 10	10:08 p. m.	Wayne (E.)	NE	(1)	(1)	0	0	5 5,000	
6. Aug. 8	2:45–3:15 p. m.	Kalamazoo (C.)	NE	20	83–167	2	75	6 50,000 1,000,000	A very severe storm. Tornado touched at intervals, destroying homes, factories, and crops.
7. Aug. 8	3 p. m.	Kent (N.) and Montcalm (W.).	NE	25	50–100	0	10	6 50,000 500,000	Tornado touched at intervals, felled 8 steel towers carrying 140,000 volt lines.
8. Aug. 8	4:30–5:15 p. m.	Isabella (SE.) and Midland (S.).	NE	25	100–167	0	6	6 10,000 80,000	Tornado touched at intervals.
9. Aug. 8	5 p. m.	Lapeer (C.)	NE	(4)	(1)	0	2	5 35,000	Small damage to crops. Tornado dipped into the lake 3 times; each time water, weeds and mud were churned into the air to a height of about 50 feet.
MINNESOTA									
1. June 18	3:10–3:40 p. m.	Hennepin (NW.) and Anoka (S.).	NE	25	250	9	222	1,200,000	Property loss from a major destructive storm. Greatest destruction in town of Anoka, where 1,450 persons were affected.
2. June 27	2:30–3:15 p. m.	Bigstone (NW.)	SE	40	(1)	1	1	(1)	Automobile blown off the road, resulting in 1 fatality and 1 injury. Much grain lodged.
3. July 5	6:30–8 p. m.	Lac Qui Parle (C.) and Lyon (NW.).	SE	45	100	0	0	51,000	A number of buildings and residences destroyed. Livestock and poultry killed; some damage to crops.

See footnotes at end of table.

TABLE 7.—*Tornadoes of 1939, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
MISSISSIPPI				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
1. Feb. 14	6:45 p. m.	Noxubee (E.)	NE	15	100	0	25	50,000	
2. Feb. 27	8:30 p. m.	Simpson (SE.)	NE	8	100	0	7	150,000	
3. Apr. 6	2 a. m.	Jasper (SW.)	NE	1½	50	0	0	6,000	
4. Apr. 16	6 p. m.	Panola (E.-C.)	NE	10	75	0	3	5,000	
5. May 24	11 a. m.	Leflore (C.)	NE	½	17	0	0	800	
MISSOURI									
1. Apr. 15	2:30 a. m.	Saline (S.-C.)	NE	(4)	100	0	6	13,500	
2. June 7	Afternoon	Nodaway (NE.)	NE	(4)	440	0	1	[9] 3,000 12,500	
3. June 7	do	Nodaway (SE.)	NE	(4)	440	0	0	3,000	
4. June 19	10:40–11:30 a. m.	Pike (E.-C.)	NE	15–20	50–100	0	3	25,000	
5. July 25	4:30 a. m.	Caldwell (SE.)	NE	(1)	(1)	0	1	[6] 400 2,500	
NEW YORK									
1. May 23	(1)	Delaware (NW.)	(1)	(1)	(1)	1	5	20,000	Small tornado destroyed several buildings.
NORTH CAROLINA									
1. Mar. 16	3:10 a. m.	Gates (C.)	NE	2½	440	0	3	50,000	Homes and other buildings destroyed.
2. Aug. 22	(1)	Wake (S.)	N	7	50–75	1	2	[6] 3,000	1 home destroyed.
NORTH DAKOTA									
1. May 5	9:30 p. m.	McLean (N.)	NE	50	500	0	0	[5] 90,000	Crops cut off by flying dirt. About 20 buildings destroyed and many others damaged. Some horses, cattle, and chickens killed.
OKLAHOMA									
*1. Apr. 14–15	11 p. m., 14th— 12:15 a. m., 15th—	Dewey (NW.) Woodward (SE. Major (ext. NW.) Woods (E.)	NE	65	(3)	7	19	104,000	Many homes destroyed near Waynoka, Hopeton, and Alva. Entire business section and school building at Capron demolished. Dissipated just north of Oklahoma-Kansas border.
PENNSYLVANIA									
1. Feb. 15	11:20 a. m.	Northampton (W.)	NE	1	15	0	0	10,000	At Bath, Pa.
2. June 13	7:35 p. m.	Philadelphia (N.)	NE	½	80	0	0	28,000	In West Oak Lane suburban section. Several houses unroofed. Many reports of funnel-shaped cloud.
SOUTH CAROLINA									
1. Feb. 3	3:25 p. m.	Lexington (NE.) and Richland (W.-C.).	ENE	10	100	0	6	131,000	Many dwellings in Columbia destroyed or damaged. Speed of translation about 23 m. p. h. Funnel-shaped cloud observed.
2. Feb. 15	6:30 a. m.	Pickens (SE.)	NE	½	(1)	0	1	5,000	Tornado cloud not observed, but wind said to be of tornado type.
3. Apr. 1	4 p. m.	Newberry (C.)	E	7	75	0	0	150	
4. Apr. 1	5 p. m.	Fairfield (C.)	(1)	(4)	(3)	0	0	4,000	1 dwelling house and several smaller buildings destroyed.
5. Apr. 17	2:30 p. m.	Lexington (NE.)	(1)	(4)	(3)	0	0	200	Cottage unroofed.
6. May 8	7 p. m.	McCormick (C.)	E	5	100	1	6	5,000	6 dwellings demolished. Livestock and poultry killed.
7. June 9	Late p. m.	Darlington (N.-C.)	E	(4)	(3)	0	0	1,500	Lumber company plant damaged.
8. June 21	3:30 p. m.	Sumter (ext. E.)	(1)	(4)	(3)	0	3	5,000	Building damaged livestock killed.
9. Aug. 17	2 p. m.	Greenville (SE. and Laurens (ext. N.).	NE	5	50	0	0	5,000	Property damaged; and livestock killed.
SOUTH DAKOTA									
1. May 22	(1)	Shannon	E	¼	50	1	1	2,500	Property damaged.
2. June 21	2:45 p. m.	Day (W.-C.)	E	(1)	(3)	0	0	500	Do.
3. July 20	6 p. m.	Martin (C.)	E	(1)	50	0	0	18,000	Buildings, household goods, and cars wrecked; no crop loss.
TENNESSEE									
1. Jan 4	3 p. m.	Hardeman (NE.) Chester (NW.) Henderson (W.)	NE	40	100–300	4	20	40,000	
2. Aug. 9	2:30 p. m.	Wilson (SW.)	ESE	4–10	880	0	0	(5)	Number of barns and houses unroofed.
3. Sept. 4	5:30 p. m.	White (N.)	ESE	6	150–200	1	6	5,000	Damage to houses, barns, and crops.
TEXAS									
1. Jan. 8	3 a. m.	Dawson (C.)	N	[8] 800	50	0	0	1,500	Property damage in Lamesa.
2. Jan. 8	12 noon	Eastland (NW.)	NE	5	75	0	2	2,500	Property damage in Cisco.
3. Feb. 25	10:30 a. m.	Newton (W.-C.)	(1)	(1)	(1)	0	1	6,000	Small tornado at Call.
4. Mar. 25	7:25 p. m.	Montague (N.-C.)	E–SE	(1)	400	0	1	12,000	Property and small crop damage at Nacona.
5. Mar. 27	(1)	Clay (N.)	(1)	(1)	(1)	(1)	(1)	(5)	Damage to 3 houses. No details.

See footnotes at end of table.

TABLE 7.—*Tornadoes of 1939, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
TEXAS—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
6. Apr. 15	4:30–6 p. m.	Parker (C.) Tarrant (NW.)	SE–NE	35	100	0	2	[6] 2,000 4,000	Tornado cloud touched at intervals. Observed at Milsap, Weatherford, and Azle.
7. Apr. 15	10:30 p. m.	Bandera (E.)	N	4	150	0	5	30,000	Near Pipe Creek.
8. Apr. 16	2 a. m.	Burnet (S.)	NE	[1]	25	0	0	[5]	Damaged several farmhouses and 1 factory building. No estimate.
9. Apr. 16	2:30 a. m.	Tarrant (N.-C.)	[1]	1	17	0	0	300	Near Smithfield.
10. Apr. 16	4 a. m.	Bell (NE.)	[1]	[1]	[1]	0	0	7,500	Damage to dairy farm. Some livestock killed.
11. Apr. 16	5:30 a. m.	Navarro (S.-C.)	NE	1½	333	0	4	50,000	Property damage in Richland.
12. Apr. 16	6:05 a. m.	Henderson (C.)	NE	8	100	1	2	[5]	1 house demolished and several damaged. Tornado struck Athens.
13. Apr. 16	11:30 a. m.	Bowie (ext. E)	NE–NW	5	300	1	48	50,000	Tornado struck Texarkana.
14. Apr. 28	[1]	Gonzales (C.)	[1]	[1]	[1]	0	0	[5]	Several thousand dollars damage. No estimate obtainable.
15. May 7	1 p. m.	Haskell (W.-C.)	[1]	[1]	12	0	0	2,000	
16. May 7	5:10 p. m.	Callahan (NE.) and Eastland (W.-C.).	[1]	[1]	100	0	0	6,500	Damage to farm residences; crop loss negligible.
17. May 8	6:30 p. m.	Caldwell (S. C.)	[1]	[1]	[1]	2	24	[10] 250,000	Homes and business property; additional heavy damage to crops.
18. May 16	4 p. m.	Brown (NE.)	[1]	[1]	[1]	0	[5]	[10] 100,000	Several persons injured.
19. May 17	6:50 p. m.	McLennan (C.)	[1]	[1]	880	0	5	[6] 500 10,000	Tornado struck Hewitt.
20. June 20	6:20 p. m.	Hockley (E.-C.) and Lubbock (NW.).	NE	20	[1]	1	26	27,500	Damage to buildings; crop loss negligible.
21. July 22	5:50 p. m.	Parmer (NW.)	NE	1	50	0	0	500	Small tornado. Damage to farm buildings near Friona.
22. July 28	1:30 p. m.	Hardeman (W.)	NE	1	880	0	0	1,000	Damage to buildings in Goodlet.
VIRGINIA									
1. July 18	6:30 p. m.	Pittsylvania (SE.)	NW	3	400	0	0	[6] 2,000 2,000	
*2. Aug. 19	12:30 a. m.	Northumberland (E.)	NW	10	200	1	8	[6] 10,000	Crop damage only. Continued into Maryland as No. 2.

* Denotes a State-boundary-crossing disturbance.
[1] Datum not obtained.
[2] Times given are for standard used in locality.
[3] Narrow.
[4] Short.
[5] See remarks.
[6] Crop damage.
[7] Miles instead of yards.
[8] Yards instead of miles.
[9] Damage to livestock.
[10] Damage from hail and tornado.

HAIL, 1939

Information about damaging hail during the year 1939 was assembled by the several sections centers. During the crop season (April-September) the total reported loss was $3,505,470, divided into crop damage of $3,151,670 and property damage of $353,800. As is usually the case, these estimates are probably too low due to several occurrences of hail where the damage was indicated as "severe" or "considerable" without any definite estimate of loss.

During the crop season (April-September) the total reported damage to crops for the entire country by months was as follows: April, $5,000; May, $527,350; June, $1,171,970; July, $1,003,600; August, $207,650; and September, $17,000. No one State reported as much as a million dollars damage, the greatest crop damage being $751,850 in Kansas.

Table 8 shows the separate losses for property and crops by sections during 1939, also aggregate totals for the crop season (April-September) and for the rest of the year.

TABLE 8.—*Losses from hailstorms during 1939*

[In dollars]

State or section	January		February		March		April		May		June		July	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama							(1)	(1)						
Arizona													(1)	2,000
Arkansas							(1)	(1)	(1)	(1)			(1)	(1)
California							(1)	(1)	(1)	(1)	(1)	(1)		
Colorado											(1)	(3)		
Dist. of Columbia														
Florida					(1)	(1)	(1)	(1)	(3)	(3)	(1)	(1)		
Georgia			(4)	(4)	(1)	2,000	(4)	5,000	(4)	50,000	0	5,000		
Idaho									(1)	(1)				
Illinois			5,000	0	50	0	500	0	0	14,000	22,500	25,000	0	39,000
Indiana							(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Iowa									[2] 21,000	10,250	5,100	40,500	15,000	262,000
Kansas							12,400	0	63,000	30,850	[2] 24,000	[2] 635,500	25,000	[2] 60,000
Kentucky													(3)	(3)
Louisiana														
Maryland-Delaware									(4)	(4)	(3)	(3)	(4)	(4)
Michigan									4,000	1,000	(3)	5,500	(3)	100,000
Minnesota									(1)	(5)	(1)	(5)	(1)	(5)
Mississippi							(4)	(4)					(4)	(4)
Missouri							(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Montana											[2] 4,300	266,470	(3)	245,500
Nebraska							(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
Nevada														
New England							(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
New Jersey														
New Mexico									(1)	(1)	(1)	(1)	(1)	(1)
New York											(1)	(1)	(1)	(1)
North Carolina							(3)	(3)	(3)	325,000			0	224,100
North Dakota									(1)	(1)			(1)	(1)
Ohio											(1)	(1)	(3)	(3)
Oklahoma							(5)	(5)	[2] 1,900	[2] 20,750	[2] 28,000	107,000	(5)	[2] 10,000
Oregon									(1)	(1)	(1)	(1)	(1)	(1)
Pennsylvania											5,000	15,000		
South Carolina							(4)	(4)	(4)	75,500	(4)	62,000	(4)	16,000
South Dakota									(1)	(1)	(1)	(1)	(4)	(1)
Tennessee											(1)	(1)	(1)	(1)
Texas							(1)	(1)	(3)	(3)	(1)	(1)	(1)	(1)
Utah							(1)	(1)	(1)	(1)	(1)	(4)	(1)	(4)
Virginia											5,000	10,000	(1)	45,000
Washington														
West Virginia														
Wisconsin													(1)	(1)
Wyoming									(1)	(1)	(1)	(1)		
Total			5,000	(4)	50	2,000	12,900	5,000	89,900	527,350	93,900	1,171,970	40,000	1,003,600
Sections outside continental U. S.:														
Alaska														
Hawaii														
West Indies														

See footnotes at end of table.

TABLE 8.—*Losses from hailstorms during, 1939*—Continued

[In dollars]

State or section	August		September		October		November		December		Crop season Apr.-Sept., inclusive		Period: Jan.-Mar. and Oct.-Dec., inclusive	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama											(1)	(1)		
Arizona	25,000	60,000									25,000	62,000		
Arkansas											(1)	(1)		
California			(1)	(1)							(1)	(1)		
Colorado											(1)	(5)		
Dist. of Columbia														
Florida											(5)	(5)	(1)	(1)
Georgia			500	(5)							2 500	2 60,000	(4)	2,000
Idaho											(1)	(1)		
Illinois	8,600	54,000									31,600	132,000	5,050	
Indiana			(1)	(1)							(1)	(1)		
Iowa	500	10,000									41,600	322,750		
Kansas	60,500	25,500									2 184,900	2 751,850		
Kentucky											(3)	(3)		
Louisiana														
Maryland-Delaware	(1)	150	(5)	(2)							(4)	2 150		
Michigan	(3)	2,500	10,000	2,000							2 14,000	2 111,000		
Minnesota	(1)	(5)									(1)	6 219,100		
Mississippi	(1)	(1)									(4)	(4)		
Missouri	(5)	(5)									(5)	(5)		
Montana	(1)	2 500									4,300	512,470		
Nebraska											(3)	(3)		
Nevada														
New England	(1)	(1)	(1)	(1)							(1)	(1)		
New Jersey	(1)	(1)	(3)	(3)							(3)	(3)		
New Mexico											(1)	(1)		
New York			(1)	(1)							(1)	(1)		
North Carolina	(3)	(3)									(3)	549,100		
North Dakota	(1)	(1)									(1)	(1)		
Ohio			(1)	(1)							(3)	(3)		
Oklahoma	10,000	5,000	0	0							39,900	142,750		
Oregon											(1)	(1)		
Pennsylvania			2,000	15,000							7,000	30,000		
South Carolina											(4)	153,500		
South Dakota											(4)	(1)		
Tennessee	(1)	50,000	(4)	(4)							(4)	50,000		
Texas	(1)	(1)	(1)	(1)							(3)	(3)		
Utah											(1)	(4)		
Virginia											5,000	55,000		
Washington														
West Virginia														
Wisconsin											(1)	(1)		
Wyoming											(1)	(1)		
Total	104,600	207,650	12,500	17,000							353,800	3,151,670	5,050	2,000
Sections outside continental U. S.:														
Alaska														
Hawaii														
West Indies														

[1] Moderate to heavy hail at various places, no damage reported.
[2] Additional losses occurred, no accurate estimate obtained.
[3] Considerable losses occurred, no accurate estimate of damage available.
[4] Losses incurred reported to be slight.
[5] Damage estimated to be several thousand dollars.
[6] Total damage for crop season; losses on a monthly basis not available.

LOSSES FROM WINDSTORMS, 1939

For the twenty-fourth consecutive year statistics have been collected, chiefly through field service officials of the Bureau, of the losses of property and life resulting from all classes of severe winds, in addition to those considered to have been tornadoes. Special efforts were put forth to break down windstorm damage into two classes—first, damage to property, and second, damage to crops. Table 9 shows the results by months, seasons, and sections.

TABLE 9.—*Losses from windstorms, other than tornadoes, by months, seasons, and sections, 1939*

[In dollars]

State or section	January		February		March		April		May		June		July	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama	(2)	(2)	22,000	(1)	6,000	(1)	8,500	0	(1)	(4)	(2)	(2)		
Arizona													2,675	(1)
Arkansas	1,000	0			5,500	0	3,500	0	(4)	(4)	(1)	0	2,500	0
California			(5)	(5)			(5)	(5)			(5)	(5)		
Colorado			15,000	0	100	0			100	0	[3] 18,561	0		
District of Columbia														
Florida	(1)	(1)	(5)	(5)										
Georgia			[3] 3,000	0			[3] 10,000	[3] 50,000	(1)	(1)				
Idaho											(1)	(1)		
Illinois			96,645	0	3,135	0	4,500	0	200	150	305,900	10,000	7,355	2,700
Indiana			9,100	0	300	0			25,000	(1)	208,500	[3] 1,000	11,000	[3] 3,000
Iowa											73,870	500	70,000	7,500
Kansas					12,500	0	165,000	0	24,000	0	197,100	193,000	30,150	0
Kentucky	2,000	0									5,000	0	1,000	0
Louisiana	13,000	0	150,500	50,000			5,000	0						
Maryland-Delaware	(1)	0	[3] 3,500	0							[3] 4,000	100	(2)	(2)
Michigan													1,000	0
Minnesota											782,000	(2)	17,000	(2)
Mississippi	1,000	0	[3] 20,000	0	(2)	0	200,000	0					5,000	
Missouri					(2)	0	[3] 30,000	0	[3] 25,000	[3] 12,000	[3] 10,000	[3] 20,000	(2)	(2)
Montana									10,000	0			(1)	(1)
Nebraska														
Nevada														
New England	(5)	(5)	(1)	0	(1)	0	(1)	0					(1)	0
New Jersey			(2)	0			(1)	0					(1)	0
New Mexico														
New York					(4)	0			(4)	0	[3] 10,500	(1)	2,000	0
North Carolina														
North Dakota									(4)	(4)			(4)	(4)
Ohio	(1)	0	(1)	0					(1)	0	[3] 235,000	(1)	(1)	0
Oklahoma											[3] 6,000	[3] 12,000	(1)	(1)
Oregon														
Pennsylvania			40,000	0							5,000	5,000	50,000	(1)
South Carolina	[3] 1,500	0	[3] 22,500	0							400	0	6,200	150
South Dakota							(2)	0	(2)	0	(2)	0	(2)	(2)
Tennessee	10,000	0	[3] 50,000	0	(1)	0	(1)	0	(1)	0	(4)	(4)	(1)	(1)
Texas	100,000	0	3,000	0	36,150	5,000			(4)	(4)			1,000	0
Utah														
Virginia			3,250	0			7,000							
Washington														
West Virginia	(2)	(2)	(2)	0										
Wisconsin													3,200	0
Wyoming														
TERRITORIES														
Alaska														
Hawaii							3,000	0						
Total [7]	128,500	(2)	438,495	50,000	63,685	5,000	436,500	50,000	84,300	12,150	1,861,831	241,600	210,080	13,350

See footnotes at end of table.

TABLE 9.—*Losses from windstorms, other than tornadoes, by months, seasons, and sections, 1939*—Continued

State or section	August		September		October		November		December		Crop season Apr.-Sept. inclusive		Annual		Number of	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Deaths	Injuries
Alabama			2,100	0							[3] 10,600	(2)	38,600	(2)	2	4
Arizona	(4)	(4)									[3] 2,675	(4)	[3] 2,675	(4)	1	2
Arkansas	(1)	0	[3] 1,000	0							[3] 7,000	(4)	[3] 13,500	(4)	3	20
California			(5)	(5)					(5)	(5)	(5)	(5)	(5)	(5)	0	0
Colorado											[3] 18,661	0	[3] 33,761	0	2	1
District of Columbia																
Florida	(5)	(5)			(5)	(5)					(5)	(5)	(5)	(5)	0	0
Georgia											[2] 10,000	[3] 50,000	[3] 13,000	50,000	1	1
Idaho											(1)	(1)	(1)	(1)	0	0
Illinois	13,900	500	2,000	0							333,855	13,350	433,635	13,350	1	27
Indiana			200	750	300	0					244,700	[3] 4,750	254,400	[3] 4,750	2	13
Iowa	0	25,000			(2)	(2)					143,870	33,000	[3] 143,870	33,000	0	3
Kansas	[3] 101,500	[3] 27,500									517,750	220,500	530,250	220,500	0	2
Kentucky											6,000	0	8,000	0	2	6
Louisiana	500	2,500							3,400	0	5,500	2,500	172,400	52,500	4	9
Maryland-Delaware	(1)	(1)	(1)	(1)							[3] 4,000	[3] 100	[3] 7,500	[3] 100	0	4
Michigan											1,000	0	1,000	0	0	0
Minnesota	5,000	0	16,000	(2)	6,000	0					820,000	(2)	826,000	(2)	0	5
Mississippi	10,000	0									215,000	0	[3] 236,000	0	0	4
Missouri	(2)	(2)	(2)	(2)							[3] 65,000	[3] 32,000	[3] 65,000	[3] 32,000	0	0
Montana											[3] 10,000	0	[3] 10,000	0	1	3
Nebraska																
Nevada																
New England	(1)	0							(2)	0	(1)	0	(2)	0	14	0
New Jersey			(2)	(2)							(2)	(2)	(2)	(2)	2	0
New Mexico																
New York	(2)	(2)	(4)	(4)	(2)	(2)			(1)	0	[3] 12,500	(4)	[3] 12,500	(4)	8	5
North Carolina	(2)	(2)									(2)	(2)	(2)	(2)	0	0
North Dakota											(4)	(4)	(4)	(4)	0	0
Ohio			[3] 5,000	(1)			5,000	0			[3] 240,000	(1)	[3] 245,000	(1)	3	6
Oklahoma	35,600	10,000									[3] 41,600	[3] 22,000	[3] 41,600	[3] 22,000	4	6
Oregon																
Pennsylvania											55,000	[3] 5,000	95,000	[3] 5,000	3	0
South Carolina	1,100	0									7,700	150	[3] 31,700	150	1	4
South Dakota			(1)	0							(2)	(2)	(2)	(2)	0	0
Tennessee			1,500	0							[3] 1,500	(1)	[3] 61,500	(1)	1	0
Texas	500	0			77,000	1,000					[3] 1,500	(4)	217,650	[3] 6,000	2	[6] 4
Utah																
Virginia											7,000	0	10,250	0	0	0
Washington																
West Virginia			(2)	0							(2)	0	(2)	(2)	0	
Wisconsin			17,800	20,000							21,000	20,000	21,000	20,000	3	7
Wyoming																
TERRITORIES																
Alaska																
Hawaii											3,000	0	3,000	0	0	0
Total [7]	168,100	65,500	45,600	20,750	83,300	1,000	5,000	0	3,400	0	2,806,411	403,350	3,528,791	459,350	60	136

[1] Losses occurred, no accurate estimate of damage obtained, believed slight.
[2] Losses reported as considerable, no estimate of damage available.
[3] Additional losses occurred, no estimate obtained.
[4] Damage estimated to be several thousand dollars.
[5] High winds reported at various places, no damage reported.
[6] Several additional injuries reported.
[7] Territorial figures not included in total.

Deaths and fire losses caused by lightning, also havoc and loss of life caused by floods of streams, are omitted from table 9, even though high winds are a feature of the electrical storm that caused the downpour. When hail or beating rain, or both, accompanied these strong winds, or in the colder months sleet, glaze, or heavy snow aided in causing damage, an effort is made to estimate what share of the total loss was due to winds.

Table 10, following, gives for the various States and sections deaths and injuries attributed to windstorms other than tornadoes during the year 1939 on a monthly and annual basis. The total number of deaths caused by windstorms other than tornadoes during the year totaled 60, which is considerably below the 1938 figure of 630; similarly, the number injured in 1939 totaled 136 as against 1,839 in 1938.

TABLE 10.—*Deaths and injuries caused by 1939 windstorms, other than tornadoes*

State or section	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
Alabama	0	0	1	0	0	0	1	4	0	0							0	0							2	4
Arizona													0	0	1	2									1	2
Arkansas	0	0			0	1	0	0	3	19	0	0	0	0	0	0	0	0							3	20
California			0	0			0	0			0	0					0	0					0	0	0	0
Colorado			0	0	0	0			1	0	1	1													2	1
District of Columbia																									0	0
Florida	0	0	0	0											0	0			0	0					0	0
Georgia			1	1			0	0	0	0															1	1
Idaho											0	0													0	0
Illinois			0	16	1	0	0	0	0	0	0	11	0	0	0	0	0	0							1	27
Indiana			0	0	0	0			1	0	1	12	0	0			0	1	0	0					2	13
Iowa											0	3	0	0	0	0			0	0					0	3
Kansas					0	0	0	0	0	2	0	0	0	0	0	0									0	2
Kentucky	0	0									2	6	0	0											2	6
Louisiana	1	4	0	0			3	2							0	0							0	3	4	9
Maryland and Delaware	0	2	0	0							0	0	0	0	0	0	0	0							0	4
Michigan													0	0											0	0
Minnesota											0	5	0	0	0	0	0	0	0	0					0	5
Mississippi	0	0	0	0	0	0	0	4					0	0	0	0									0	4
Missouri					0	0	0	0	0	0	0	0	0	0	0	0	0	0							0	0
Montana									0	0			1	3											1	3
Nebraska																									0	0
Nevada																									0	0
New England	2	0	0	0	12	0	0	0					0	0	0	0							0	0	14	0
New Jersey			1	0			0	0					1	0			0	0							2	0
New Mexico																									0	0
New York					0	0			0	0	0	0	0	0	0	0	5	5	[2]3	0			0	0	8	5
North Carolina															0	0									0	0
North Dakota									0	0			0	0											0	0
Ohio	0	0	0	0					0	0	1	6	0	0			0	0			2	0			3	6
Oklahoma											0	0	1	0	3	6									4	6
Oregon																									0	0
Pennsylvania			0	0							0	0	3	0											3	0
South Carolina	0	0	1	4							0	0	0	0	0	0									1	4
South Dakota							0	0	0	0	0	0	0	0			0	0							0	0
Tennessee	0	0	0	0	0	0	0	0	[3]1	0	0	0	0	0			0	0							1	0
Texas	1	(1)	0	0	0	0	0	0	1	4	0	0	0	0	0	0			0	0					2	[4]4
Utah																									0	0
Virginia			0	0			0	0																	0	0
Washington																									0	0
West Virginia	0	0	0	0																					0	0
Wisconsin													1	1			2	6							3	7
Wyoming																									0	0
Total	4	[4]6	4	21	13	1	4	10	7	25	5	44	7	4	4	8	7	12	[3]3	0	2	0	0	3	60	136
Sections outside continental U. S.:																										
Alaska																									0	0
Hawaii							0	0																	0	0
West Indies																									0	0

NOTE.—Entries are made only when deaths or injuries are reported. Leaders in annual column indicate no damaging winds reported for the year.

[1] Deaths or injuries reported as "several."

[2] Deaths due to drowning from boats capsized by high wind.

[3] Deaths from electricity, caused by power lines blown down.

[4] Additional injuries reported as "several."

Table 11, entitled "Deaths and property losses caused by windstorms other than tornadoes," shows the number of deaths and property losses (crops included) caused by windstorms other than tornadoes since 1916.

TABLE 11.—*Deaths and property losses caused by windstorms, other than tornadoes, 1916–39*

Year	Number of lives lost	Property and crop damage	Year	Number of lives lost	Property and crop damage
1916	65	$11,712,125	1929	46	$20,334,600
1917	25	1,400,550	1930	49	5,706,000
1918	79	7,602,200	1931	17	7,773,000
1919	344	28,170,760	1932	306	42,657,360
1920	42	4,735,400	1933	156	65,604,100
1921	65	13,174,650	1934	109	19,497,173
1922	133	5,055,800	1935	461	17,191,000
1923	68	5,261,800	1936	121	17,256,265
1924	78	13,545,750	1937	43	6,292,938
1925	88	11,612,380	1938	630	315,435,388
1926	357	93,610,250	1939	60	3,988,141
1927	64	6,783,160	Total	5,354	813,236,790
1928	1,947	88,836,000	Average	223	33,884,866

SUNSHINE, 1939

Table 12 gives for 166 stations the monthly amounts of sunshine and percentage of the possible, as derived from the automatic records made by an instrument designated the "thermometric recorder," illustrated in preceding volumes of this series.

This instrument does not record satisfactorily the duration of sunshine for about 1 hour after sunrise and for about 1 hour before sunset, and on this account it has been considered necessary to apply to the record for these hours what has been designated a "twilight correction." The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record and between the time the instrument ceases to act and the hour of sunset.

The average cloudiness of the whole sky is determined by numerous personal observations at all stations during the daytime, and is given in the column entitled, "Cloudiness 0 to 10," in the tables of Climatology, pages 31 to 131.

TABLE 12.—*Monthly amounts and percentage of sunshine, 1939*

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Albany, N. Y.	92	31	127	43	196	53	143	36	312	69	314	68	349	75	335	78	231	62	172	50	190	65	93	33	2,554	57
Albuquerque, N. Mex.	203	65	241	79	282	76	334	85	381	88	397	91	337	76	348	83	300	81	324	93	232	75	267	88	3,646	82
Alpena, Mich.	95	33	140	48	229	62	214	53	299	65	306	66	393	83	303	70	230	61	145	43	85	30	67	25	2,506	56
Amarillo, Tex.	193	62	217	71	278	75	295	75	342	79	370	85	387	88	359	86	355	95	320	91	238	77	243	80	3,597	81
Apalachicola, Fla.	218	67	161	52	233	63	274	71	327	77	266	63	312	73	273	67	257	69	282	80	245	77	214	67	3,062	69
Asheville, N. C.	158	51	146	48	235	63	259	66	235	54	256	59	234	53	183	44	222	60	235	67	189	61	178	59	2,530	57
Atlanta, Ga.	202	64	182	59	286	77	319	81	214	50	250	58	264	60	244	59	238	64	284	81	192	62	177	57	2,852	64
Atlantic City, N. J.	134	44	168	56	204	55	201	51	325	73	275	62	311	69	250	59	254	68	193	56	183	61	157	53	2,655	60
Augusta, Ga.	197	62	148	48	256	69	305	78	298	69	325	76	324	74	274	66	251	68	287	82	210	67	203	65	3,078	69
Austin, Tex.	152	47	173	56	226	61	288	74	293	69	313	74	336	78	304	74	295	80	213	60	114	36	213	67	2,920	66
Baker, Oreg.	154	54	199	68	256	69	275	68	323	70	312	67	388	82	376	86	290	77	166	49	198	69	80	29	3,017	68
Baltimore, Md.	165	55	164	54	228	61	228	57	342	77	272	61	278	61	297	70	250	67	194	56	197	65	160	55	2,775	62
Binghamton, N. Y.	72	24	120	41	143	39	131	33	282	62	226	50	237	51	238	56	153	41	144	42	145	49	66	23	1,957	44
Birmingham, Ala.	175	55	165	54	230	62	272	69	225	52	240	56	300	68	238	57	240	65	250	71	159	51	172	56	2,666	60
Bismarck, N. Dak.	130	47	206	71	287	78	276	68	333	71	269	57	397	83	322	73	224	60	149	44	210	75	125	47	2,928	66
Block Island, R. I.	150	50	188	63	228	61	243	61	345	76	351	78	395	86	315	74	280	75	215	62	201	68	144	50	3,055	69
Boise, Idaho	99	34	138	47	237	64	318	79	341	75	324	70	387	83	371	86	311	83	212	62	189	65	71	26	2,998	67
Boston, Mass.	119	40	135	46	180	49	177	44	279	62	295	65	325	70	260	61	230	62	150	44	170	58	108	38	2,428	54
Brownsville, Tex.	172	52	156	49	226	61	249	65	298	72	314	76	357	85	313	77	262	71	247	69	171	52	199	61	2,964	67
Buffalo, N. Y.	70	24	122	41	188	51	168	42	346	76	306	66	390	84	348	81	210	56	172	50	132	45	79	28	2,531	57
Burlington, Vt.	106	37	115	39	206	56	192	48	318	69	318	69	350	75	329	76	230	61	151	44	117	40	45	16	2,477	56
Canton, N. Y.	116	40	107	37	189	51	180	44	281	61	278	60	326	69	345	79	220	59	178	52	158	55	74	27	2,452	55
Cape Henry, Va.	181	59	146	46	196	53	259	66	277	63	263	60	241	54	241	57	261	70	216	62	199	65	195	65	2,675	60
Charles City, Iowa	108	37	178	60	245	66	233	58	368	81	312	68	361	78	284	66	289	77	220	64	198	68	154	55	2,950	66
Charleston, S. C.	227	71	181	59	269	72	298	76	275	64	256	60	329	75	253	61	210	57	236	67	213	68	209	67	2,956	66
Charlotte, N. C.	190	61	159	52	254	68	288	73	316	73	318	73	301	68	284	68	293	79	262	75	185	60	195	64	3,045	68
Chattanooga, Tenn.	171	55	162	53	229	62	266	68	262	60	292	67	334	76	270	65	273	74	240	68	150	48	177	58	2,826	64
Cheyenne, Wyo.	146	49	190	64	254	69	257	64	344	77	337	75	362	79	296	69	265	71	263	76	226	76	135	47	3,075	69
Chicago University, Ill.	86	29	160	54	241	65	211	53	348	77	313	69	358	78	338	79	302	81	233	68	159	54	130	46	2,879	65
Cincinnati, Ohio	99	33	140	46	217	58	200	50	332	75	285	64	276	61	304	72	300	80	265	76	172	57	118	40	2,708	61
Cleveland, Ohio	61	21	134	45	176	47	189	47	351	78	295	65	349	76	339	79	250	67	197	57	111	38	58	20	2,510	56
Columbia, Mo.	124	41	137	46	218	59	190	48	301	68	261	59	308	68	267	63	281	75	257	74	148	49	132	45	2,624	58
Columbus, Ohio	136	45	160	54	227	61	202	51	321	72	257	57	270	59	316	74	278	74	224	65	137	46	91	31	2,619	59
Concordia, Kans.	166	55	187	62	208	56	222	56	342	77	322	72	364	80	297	70	308	82	254	73	194	65	194	67	3,058	69
Dallas, Tex.	162	51	163	53	222	60	261	67	290	67	313	73	377	86	330	80	324	87	263	75	118	37	213	69	3,036	68
Davenport, Iowa	103	35	149	50	263	71	217	54	332	73	304	67	330	72	267	62	297	79	209	61	152	51	134	47	2,757	62
Del Rio, Tex.	186	57	215	69	196	53	264	68	277	66	286	68	344	80	280	69	284	77	202	57	130	41	209	65	2,873	65
Denver, Colo.	197	65	187	62	267	72	236	59	332	74	328	73	317	70	253	60	236	63	255	74	221	74	211	73	3,040	68
Des Moines, Iowa	149	50	202	68	261	70	254	63	343	76	296	65	396	86	306	71	333	89	261	76	194	66	177	62	3,172	71
Detroit, Mich.	71	24	153	52	188	51	216	54	344	76	312	69	358	78	312	73	250	67	182	53	135	46	68	24	2,589	58
Devils Lake, N. Dak.	129	47	198	69	274	74	263	64	331	70	292	61	402	83	350	79	246	65	134	40	194	70	136	52	2,949	66
Dodge City, Kan.	178	58	209	69	243	65	284	72	361	82	360	81	394	88	362	86	337	90	305	88	216	71	219	74	3,468	78
Dubuque, Iowa	167	56	216	73	291	78	222	55	373	83	293	64	334	72	267	62	278	74	202	59	163	55	123	43	2,929	66
Duluth, Minn.	88	31	150	52	229	62	236	58	267	57	239	50	356	74	254	58	252	67	172	51	178	63	126	47	2,947	57
Eastport, Me.	133	46	97	33	183	49	187	46	287	62	274	59	276	58	266	61	159	42	127	38	158	55	86	31	2,233	50
Elkins, W. Va.	128	42	151	50	209	56	157	39	273	62	242	54	251	55	255	60	269	72	219	63	194	64	122	41	2,470	55
El Paso, Tex.	233	73	260	84	297	80	338	87	367	86	404	95	312	72	352	85	323	87	302	85	174	55	254	81	3,616	81
Erie, Pa.	60	20	126	42	172	46	202	50	324	72	287	63	357	77	336	78	188	50	142	41	96	32	59	21	2,349	53
Escanaba, Mich.	95	34	132	46	199	54	221	54	261	56	260	55	378	79	278	64	229	61	155	46	149	52	91	34	2,447	55
Eureka, Calif.	109	37	149	50	166	45	247	62	309	69	280	62	271	59	202	47	248	66	186	54	158	53	69	24	2,394	54
Evansville, Ind.	112	37	136	45	233	63	213	54	315	71	299	67	333	74	326	77	328	88	265	76	147	48	162	55	2,869	64
Fairbanks, Alaska	26	16	110	46	186	51	316	69	357	61	331	51	346	56	223	44	116	29	82	27	72	38	22	18	2,187	48
Fort Smith, Ark.	158	50	135	44	213	57	195	50	253	58	241	55	339	77	281	67	300	81	255	73	118	38	179	59	2,667	60
Fort Wayne, Ind.	90	30	137	46	216	58	207	52	332	74	310	69	342	75	330	77	300	80	212	62	161	54	110	38	2,747	62
Fort Worth, Tex.	159	50	165	53	222	60	218	56	304	71	273	64	313	72	295	71	314	85	261	83	131	42	225	72	2,880	65

TABLE 12.—*Monthly amounts and percentage of sunshine, 1939*—Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Fresno, Calif	134	44	191	63	253	68	341	86	397	90	428	97	428	96	401	96	308	83	305	88	276	90	141	47	3,603	81
Galveston, Tex	161	49	151	48	234	63	258	67	305	72	294	70	312	73	294	72	255	69	244	69	182	57	222	69	2,912	66
Grand Junction, Colo	147	48	203	67	273	73	279	70	357	80	371	83	353	78	339	80	222	59	268	78	252	84	195	67	3,259	73
Grand Rapids, Mich	65	22	130	44	196	53	232	58	366	80	329	72	380	82	308	72	271	72	184	54	166	57	75	27	2,702	61
Green Bay, Wis	81	28	119	41	192	52	163	40	275	60	213	46	358	78	255	59	243	65	140	41	146	51	105	38	2,290	51
Greensboro, N. C	180	58	140	46	222	60	275	70	332	76	299	68	260	59	251	60	285	77	259	74	200	65	183	61	2,886	65
Harrisburg, Pa	150	50	154	51	234	63	200	50	333	75	276	62	308	68	290	68	207	55	170	49	192	64	76	26	2,590	58
Hartford, Conn	72	24	136	46	205	55	206	51	316	70	333	73	331	72	250	58	221	74	182	53	203	69	130	46	2,585	58
Havre, Mont	101	37	162	57	262	71	289	70	344	72	301	62	426	87	369	83	275	73	238	71	204	74	150	58	3,121	70
Helena, Mont	136	49	160	56	253	68	257	63	330	71	254	53	376	69	335	76	254	68	152	45	240	85	111	42	2,858	64
Honolulu, Hawaii	208	61	190	59	262	70	194	51	250	61	294	73	311	76	288	72	300	81	250	69	228	68	256	76	3,031	68
Houston, Tex	143	44	147	47	191	51	254	65	282	67	298	71	318	74	277	68	286	77	241	68	138	43	198	63	2,773	62
Huron, S. Dak	111	38	165	56	240	65	285	71	347	76	303	65	382	82	347	80	254	68	191	56	203	70	178	64	3,006	67
Indianapolis, Ind	107	36	146	48	235	63	260	65	358	80	299	67	337	74	342	80	310	83	238	69	140	47	111	38	2,883	65
Ithaca, N. Y	59	20	105	36	142	38	144	36	330	73	300	66	351	76	343	80	209	56	132	38	138	47	56	20	2,309	52
Jacksonville, Fla	218	67	149	48	248	67	236	61	283	67	229	54	278	65	231	56	201	54	165	46	176	55	212	67	2,626	59
Juneau, Alaska	25	11	50	19	130	36	132	31	112	21	186	34	138	25	46	10	24	6	56	18	27	12	0	0	926	21
Kalispell, Mont	48	18	110	38	214	58	264	64	337	71	265	55	406	84	402	91	258	68	167	50	123	44	59	23	2,653	59
Kansas City, Mo	176	58	196	65	228	61	233	59	311	70	283	63	354	78	278	66	311	83	290	84	180	60	180	61	3,020	68
Keokuk, Iowa	138	46	131	44	235	63	198	50	323	72	300	67	318	70	288	68	303	81	238	69	149	50	155	53	2,776	62
Key West, Fla	224	67	227	72	331	89	276	72	276	66	269	65	298	71	240	60	267	72	237	66	206	63	251	76	3,102	70
Knoxville, Tenn	155	50	166	54	246	66	273	69	329	75	323	74	291	65	269	64	277	74	254	73	157	51	164	54	2,904	65
LaCrosse, Wis	123	43	184	62	242	65	232	57	374	82	321	69	380	81	320	74	281	75	190	56	179	62	152	55	2,978	67
Lander, Wyo	145	49	164	55	272	74	245	61	302	66	283	62	344	74	260	60	242	65	217	64	266	91	200	71	2,940	66
Lansing, Mich	77	26	123	42	164	44	208	52	338	74	302	66	361	78	316	73	265	71	166	49	146	50	65	23	2,531	54
Lincoln, Nebr	166	56	190	64	240	65	244	61	354	79	298	66	357	78	279	65	301	81	260	76	207	70	199	69	3,095	69
Little Rock, Ark	179	57	134	44	221	59	240	61	278	64	274	63	336	76	321	77	317	85	278	79	153	49	159	52	2,890	65
Los Angeles, Calif	209	66	243	79	214	58	262	67	284	66	350	81	345	78	338	81	265	71	296	84	236	76	242	79	3,284	74
Louisville, Ky	111	36	144	47	244	66	211	53	332	75	295	67	317	71	322	79	315	85	267	77	160	53	134	45	2,852	63
Lynchburg, Va	181	59	162	53	235	63	262	66	318	72	297	67	268	60	275	65	271	73	230	66	194	64	184	62	2,877	65
Macon, Ga	194	61	155	50	257	69	309	79	256	60	265	62	280	64	229	55	245	66	240	68	191	61	205	66	2,826	64
Madison, Wis	98	34	167	57	228	61	194	48	327	72	240	52	323	69	230	53	222	59	177	52	163	56	103	37	2,472	55
Marquette, Mich	55	20	126	44	169	46	211	52	241	52	246	52	340	71	192	44	153	41	116	34	115	41	67	25	2,031	45
Memphis, Tenn	144	46	116	38	183	49	192	49	220	51	204	47	337	76	291	70	275	74	233	67	127	41	134	44	2,456	55
Meridian, Miss	158	49	146	47	244	66	265	68	239	56	245	58	302	70	276	67	263	71	262	74	174	55	171	55	2,745	62
Miami, Fla	211	63	209	66	278	75	270	70	244	59	263	64	255	61	196	49	204	55	203	57	143	44	229	70	2,705	61
Miles City, Mont	165	58	195	67	280	76	262	64	371	80	298	63	388	82	344	79	280	74	180	53	241	85	160	59	3,164	71
Milwaukee, Wis	66	23	183	62	241	65	225	56	371	82	332	72	400	86	344	80	270	72	197	58	154	53	109	39	2,892	65
Minneapolis-St. Paul, Minn	150	52	183	63	281	76	252	62	357	77	302	65	371	79	319	73	262	70	185	54	205	72	181	66	3,048	68
Missoula, Mont	93	33	121	42	204	55	246	60	344	74	286	60	422	88	405	92	283	75	175	52	154	55	49	18	2,782	62
Mobile, Ala	183	57	145	47	253	68	287	74	279	66	276	65	280	65	255	62	261	70	291	82	204	64	179	57	2,893	65
Modena, Utah	213	70	224	74	286	77	320	81	327	74	389	88	355	79	295	70	222	60	307	88	235	77	210	71	3,383	76
Nashville, Tenn	158	51	141	46	222	60	239	61	279	64	329	75	380	86	344	80	338	91	294	84	148	48	179	59	3,051	69
New Haven, Conn	142	48	160	54	215	58	228	57	325	72	346	76	361	78	283	66	262	70	188	55	215	72	119	42	2,844	64
New Orleans, La	169	52	141	45	271	73	273	71	253	60	283	67	290	68	280	68	255	69	274	77	220	69	191	60	2,900	65
New York, N. Y	130	43	157	53	214	58	248	62	308	69	259	57	258	56	206	48	240	64	174	51	183	62	128	45	2,505	56
Nome, Alaska	75	45	70	30	234	64	98	22	235	41	355	55	124	20	65	13	113	29	149	49	87	45	26	20	1,631	35
Norfolk, Va	181	59	163	54	222	60	273	69	323	73	298	68	262	59	233	55	229	61	210	60	172	56	169	57	2,735	61
Northfield, Vt	124	43	117	40	182	49	140	35	272	59	265	57	293	63	261	60	184	49	122	36	150	52	71	25	2,181	49
North Head, Wash	64	23	88	30	151	41	223	55	254	55	192	41	262	55	212	48	196	52	137	40	87	30	67	25	1,933	43
North Platte, Nebr	158	53	202	68	272	73	241	60	319	71	318	70	332	72	276	65	292	78	266	77	221	74	162	56	3,059	69
Oklahoma City, Okla	192	61	184	60	270	73	310	79	352	81	341	79	410	93	350	84	342	92	307	88	191	62	236	77	3,485	78
Omaha, Nebr	195	66	196	66	226	61	260	65	328	73	285	63	347	76	271	63	312	83	261	76	164	55	130	45	2,975	67
Oswego, N. Y	61	21	93	32	150	40	164	41	325	71	325	70	329	71	304	70	164	44	121	35	129	44	59	21	2,224	50
Parkersburg, W. Va	110	36	136	45	204	55	193	49	330	74	292	65	302	67	300	71	256	69	204	59	133	44	95	32	2,555	57
Pensacola, Fla	193	59	139	44	230	62	254	65	258	61	226	54	270	63	261	64	242	65	273	77	213	67	222	70	2,781	63
Peoria, Ill	140	47	142	48	256	69	210	53	362	81	322	71	326	71	306	72	315	84	249	72	162	55	169	59	**2,959**	**66**
Philadelphia, Pa	139	46	186	62	222	60	211	53	320	72	292	65	335	74	233	55	219	59	185	54	193	65	122	42	2,657	60
Phoenix, Ariz	221	70	232	75	308	83	345	88	416	97	428	100	401	92	352	85	296	80	337	96	237	76	257	83	3,830	86
Pittsburgh, Pa	88	30	138	46	197	53	168	42	334	75	232	51	303	66	332	78	258	69	190	55	145	49	81	28	2,466	55
Pocatello, Idaho	82	28	140	47	220	60	254	63	310	68	291	63	374	80	364	84	283	76	195	57	225	77	107	38	2,845	64
Port Arthur, Tex	159	49	149	48	232	62	248	64	304	72	302	72	309	72	285	70	299	81	267	75	178	56	194	61	2,926	66
Portland, Maine	198	68	144	49	205	55	231	57	297	65	284	61	331	71	289	67	220	59	162	47	207	72	156	56	2,724	60
Portland, Oreg	68	24	90	31	216	58	251	62	297	64	260	55	362	76	299	68	234	62	135	40	107	38	38	14	2,357	53
Providence, R. I	131	44	150	51	208	56	191	48	295	65	290	64	340	74	269	63	236	63	180	53	182	62	104	37	2,576	58
Pueblo, Colo	213	70	224	74	280	75	278	70	346	78	376	85	369	82	331	78	275	74	300	87	246	81	202	68	3,440	77
Raleigh, N. C	178	57	140	46	234	63	252	64	302	69	285	65	269	61	233	56	270	73	205	59	190	62	163	54	2,721	61
Rapid City, S. Dak	147	51	176	60	255	69	263	65	310	68	316	68	364	78	333	77	280	75	229	67	252	87	173	62	3,098	69
Reading, Pa	124	41	138	46	184	50	165	41	301	67	242	54	244	54	203	48	181	48	146	42	171	57	94	32	2,193	49
Richmond, Va	168	55	132	44	192	52	234	59	304	69	253	57	229	51	263	62	251	67	206	59	172	57	178	60	2,582	58
Rochester, N. Y	64	22	94	32	142	38	145	36	328	72	313	68	399	86	337	78	226	60	171	50	133	45	65	23	2,417	54
Roseburg, Oreg	50	17	90	30	176	47	258	64	280	62	266	58	350	75	327	76	274	73	107	31	95	33	32	12	2,305	52
Roswell, N. Mex	239	75	256	83	301	81	326	84	332	77	380	89	316	72	343	83	319	86	293	83	206	66	250	80	3,561	80
Sacramento, Calif	173	57	205	68	219	59	361	91	374	84	425	95	427	94	407	96	296	79	295	85	264	87	91	31	3,537	79
St. Joseph, Mo	150	50	176	59	226	61	227	57	316	71	303	68	348	76	277	65	321	86	274	79	165	55	156	54	2,939	66

TABLE 12.—*Monthly amounts and percentage of sunshine, 1939*—Continued

Station	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
St. Louis, Mo	120	39	120	40	242	65	209	53	298	67	238	53	299	66	294	69	336	90	278	80	134	44	143	49	2,711	61
Salt Lake City, Utah	130	44	157	53	235	63	312	78	358	80	369	82	374	81	359	84	253	68	258	75	239	80	134	47	3,178	71
San Antonio, Tex	155	47	191	61	243	65	306	79	303	72	312	75	368	86	324	79	310	84	252	71	165	51	225	70	3,154	71
San Diego, Calif	206	65	232	75	208	56	214	55	252	58	290	68	318	73	284	69	214	58	290	82	207	66	263	85	2,978	67
Sandy Hook, N. J	115	38	158	53	210	57	222	56	335	75	327	73	357	78	279	66	277	74	202	59	186	62	125	43	2,793	63
San Francisco, Calif	169	55	222	74	178	48	284	72	311	71	373	84	312	69	280	66	279	75	294	85	242	80	127	43	3,071	68
San Jose, Calif	175	57	222	73	192	52	314	80	337	77	461	91	360	80	342	81	296	80	297	85	257	84	136	45	3,389	76
San Juan, P. R	273	79	236	73	284	76	294	78	285	71	278	70	323	80	268	68	283	77	256	70	226	67	252	73	3,258	74
Sante Fe, N. Mex	202	65	217	71	260	70	295	75	352	81	383	88	316	71	305	73	254	68	307	88	232	75	250	83	3,373	76
Sault Ste. Marie, Mich	72	26	116	40	161	44	204	50	251	54	262	56	337	71	248	57	184	49	88	26	72	25	79	29	2,074	46
Savannah, Ga	193	60	147	48	225	61	263	68	263	62	234	55	260	60	226	55	198	53	220	62	162	51	216	69	2,607	59
Scranton, Pa	116	39	180	60	199	54	224	56	330	74	238	53	319	70	285	67	190	51	137	40	163	55	68	24	2,449	55
Seattle, Wash	56	20	111	39	171	46	225	55	260	55	194	41	314	65	304	69	220	58	102	30	118	42	55	21	2,130	48
Sheridan, Wyo	140	49	178	61	250	68	235	58	339	74	320	69	434	92	353	81	279	74	236	70	237	83	144	52	3,145	70
Sioux City, Iowa	171	58	208	70	278	75	306	76	378	84	357	79	395	86	344	80	319	85	246	72	218	74	158	55	3,378	76
Spokane, Wash	51	19	138	48	195	53	306	75	345	73	291	61	408	85	409	93	264	70	212	63	156	56	50	19	2,825	63
Springfield, Ill	110	36	127	42	256	69	196	49	328	73	262	58	291	64	293	69	331	89	255	74	140	47	164	56	2,753	62
Springfield, Mo	170	55	155	51	248	67	231	59	316	72	320	73	364	81	278	66	320	86	293	84	142	47	164	55	3,001	67
Syracuse, N. Y	97	33	124	42	207	56	164	41	331	73	333	73	353	76	340	79	196	52	169	49	155	53	95	34	2,564	58
Tampa, Fla	252	77	241	77	311	83	294	76	330	79	265	64	269	63	229	56	244	66	235	66	219	68	228	71	3,117	70
Tatoosh Island, Wash	61	22	128	44	159	43	206	50	251	53	152	32	246	51	243	55	178	47	96	29	33	12	34	13	1,787	40
Terre Haute, Ind	110	36	149	49	252	68	219	55	347	78	299	67	332	73	328	78	327	88	254	73	154	51	153	52	2,924	66
Toledo, Ohio	75	25	131	44	175	47	184	46	318	70	271	59	346	75	320	75	271	73	208	61	134	45	79	28	2,512	56
Trenton, N. J	119	40	131	44	177	48	174	44	329	74	303	67	333	73	232	55	263	71	165	48	194	65	153	53	2,573	58
Valentine, Nebr	202	69	209	71	271	73	289	72	323	71	355	77	403	87	373	87	304	81	254	74	232	79	174	62	3,389	76
Vicksburg, Miss	124	39	120	39	214	58	202	52	208	49	231	54	302	70	311	75	248	67	260	74	163	52	168	54	2,551	57
Walla Walla, Wash	92	33	115	40	188	51	314	77	347	75	336	71	418	88	413	95	312	83	197	58	185	65	58	21	2,975	67
Washington, D. C	131	43	130	43	184	50	188	47	306	69	247	55	248	55	235	56	208	56	194	56	185	61	127	43	2,383	53
Wichita, Kans	213	70	238	79	262	71	300	76	369	84	342	77	388	86	368	87	338	91	316	91	210	69	231	78	3,575	80
Williston, N. Dak	121	44	182	64	286	77	289	70	340	72	274	57	389	80	334	76	250	66	172	51	229	82	136	52	3,002	67
Wilmington, N. C	203	64	181	59	270	73	292	75	300	69	277	64	309	70	230	55	241	65	234	66	195	63	186	60	2,918	66
Winnemucca, Nev	120	40	140	47	226	61	307	77	344	77	370	82	398	87	381	89	307	82	236	69	226	76	133	46	3,188	72
Wytheville, Va	144	47	148	49	175	47	219	55	250	57	251	57	184	41	193	46	264	71	214	61	155	51	132	44	2,329	52
Yakima, Wash	87	31	153	53	184	50	310	76	348	74	322	68	412	86	377	86	304	81	188	56	131	47	56	21	2,872	64
Yellowstone Park, Wyo	138	48	165	57	221	60	240	59	312	68	258	55	366	78	343	79	294	78	203	60	232	81	116	42	2,888	65
Yuma, Ariz	240	75	256	83	331	89	379	97	429	100	425	99	427	98	380	92	285	77	346	98	267	85	299	96	4,064	91

EXCESSIVE RAINFALL, 1939

Table 13 contains statistics of maximum amounts of rainfall during the calendar year 1939.

The method of tabulating excessive precipitation has been changed, beginning with the year 1936, to meet the needs of many sewage engineers.

The method heretofore used gave the accumulated depth of precipitation for each 5 minutes for a storm in which the rate of fall equaled or exceeded 0.25 inch in any 5-minute period or 0.30 inch in any 10-minute period, etc., and 0.80 inch in any 1-hour period, or 1.40 inch in 2 hours, the tabulation beginning with the 5-minute period where the rate of 0.05 inch in 5 minutes began and continuing for 5-minute periods up to 120 minutes.

The present method gives the maximum fall of precipitation for the periods 5 to 180 minutes, the maximum amounts being taken for the periods in which the fall is the greatest for the given time, and is tabulated to show the maximum amounts for 5, 10, 20, 30, 45, 60, 80, 100, 120, 150, and 180 minutes, even if the fall does not equal the excessive rate for some of the periods.

Table 13 shows for most stations of the Weather Bureau furnished with self-registering gages the maximum amounts of precipitation in 5, 10, 20, 30, 45, 60, 80, 100, 120, 150, and 180 minutes. The following table A shows limits at which precipitation is considered as excessive for all stations except in the Southern States, including North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, Louisiana, Texas, Oklahoma, and San Juan, P. R.:

TABLE A.—*Showing limits at which precipitation may be considered as excessive*

Duration (in minutes)	Depth of precipitation (in inches)	Duration (in minutes)	Depth of precipitation (in inches)
5	0.25	35	0.55
10	.30	40	.60
15	.35	45	.65
20	.40	50	.70
25	.45	60	.80
30	.50		

This table is made up from the formula $A=t+20$, where A is the accumulated depth in hundredths of inches and t is the time in minutes.

For the Southern States, table B is used. This table is made up from the formula $A=2t+30$:

TABLE B.—*Showing limits at which precipitation may be considered as excessive*

Duration (in minutes)	Depth of precipitation (in inches)	Duration (in minutes)	Depth of precipitation (in inches)
5	0.40	40	1.10
10	.50	45	1.20
15	.60	50	1.30
20	.70	60	1.50
25	.80	80	1.90
30	.90	100	2.30
35	1.00	120	2.70

Similar data for the years 1896 to 1934, inclusive, have been presented in the appropriate annual reports of the Chief of the Weather Bureau and for the years 1935–38 in appropriate issues of the United States Meteorological Yearbook. The published data prior to 1896 consist of a record of maximum amounts of rainfall in 5- and 10-minute periods, also in 1 and 24 hours. The annual report for 1895–96 contains a summary of the records which up to that time had been made at the principal stations supplied with automatic gages.

The excessive precipitation data for the years 1897–1935, inclusive, show the accumulated amounts of precipitation for each 5 minutes during all storms in which the rate of fall equaled or exceeded 0.25 inch in any 5-minute period, or 0.30 inch in any 10-minute period, or 0.35 inch in any 15-minute period, etc.

Normal standard time at the place of occurrence is employed in these tables.

EXCESSIVE RAINFALL, 1939

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
NEW ENGLAND STATES											
Eastport, Maine:											
July 8	0.08	0.08	0.26	0.52	0.52	0.52	0.52	0.52	0.52	0.52	0.52
July 10	.11	.35	.42	.42	.42	.42	.42	.42	.42	.42	.42
Oct. 22	.24	.32	.50	.57	.62	.65	.67	.73	.79	.84	.87
Portland, Maine:											
July 10	.39	.71	.85	.89	.90	.96	.97	.97	.97	.97	.97
July 28	.27	.33	.60	.88	1.12	1.45	1.62	1.68	1.83	2.27	2.31
Aug. 4	.29	.49	.69	.74	.79	.83	.90	.93	.96	.96	.96
Concord, N. H.:											
May 28	.27	.29	.30	.36	.36	.37	.38	.50	.55	.56	.57
Aug. 4	.32	.48	.55	.73	.84	.91	1.04	1.11	1.18	1.26	1.33
Aug. 13	.35	.40	.42	.43	.44	.45	.46	.49	.50	.50	.50
Burlington, Vt.:											
May 9	.27	.39	.45	.47	.52	.55	.56	.56	.56	.56	.56
May 28	.17	.29	.47	.53	.55	.63	.75	.77	.83	.85	.86
June 11	.24	.40	.55	.64	.75	.78	.81	.83	.87	.99	1.07
June 30	.26	.35	.47	.52	.57	.59	.61	.62	.62	.62	.62
July 27	.35	.54	.74	.78	.78	.79	.95	1.14	1.15	1.15	1.15
Aug. 3	.33	.42	.53	.53	.53	.53	.71	.71	.71	.71	.71
Aug. 4	.34	.53	.60	.61	.62	.64	.65	.66	.67	.68	.68
Northfield, Vt.:											
June 11	.22	.31	.38	.39	.50	.56	.58	.59	.61	.62	.63
July 5	.26	.38	.47	.47	.47	.47	.47	.47	.47	.47	.47
Aug. 8	.28	.46	.91	1.07	1.07	1.07	1.07	1.07	1.07	1.07	1.07
Boston, Mass.:											
May 28	.25	.40	.42	.43	.43	.43	.43	.43	.43	.43	.43
Nantucket, Mass.:											
June 17	.28	.41	.45	.46	.47	.49	.50	.50	.50	.51	.51
Aug. 29	.24	.33	.41	.43	.45	.49	.53	.70	.71	.72	.74
Aug. 30	.25	.42	.57	.61	.62	.63	.63	.63	.63	.64	.64
Aug. 30	.20	.24	.61	.68	.69	.69	.70	.70	.71	.71	.71
Oct. 26	.33	.52	.63	.66	.70	.75	.80	.83	.83	.83	.83
Oct. 26	.26	.33	.34	.34	.35	.35	.35	.35	.35	.35	.35
Block Island, R. I.:											
June 30	.27	.38	.44	.47	.52	.59	.62	.62	.75	.96	.96
Aug. 17	.48	.75	.98	1.05	1.16	1.17	1.17	1.17	1.18	1.18	1.18
Providence, R. I.:											
July 31	.25	.34	.35	.35	.35	.35	.35	.35	.35	.35	.35
Aug. 17	.26	.37	.44	.46	.50	.53	.57	.59	.60	.60	.60
Aug. 25	.30	.44	.56	.59	.59	.60	.60	.60	.60	.61	.61
Hartford, Conn.:											
June 23	.49	.71	.72	.72	.72	.73	.73	.73	.73	.73	.73
July 14	.34	.65	.89	1.13	1.21	1.22	1.22	1.22	1.22	1.22	1.22
July 31	.26	.45	.51	.52	.52	.54	.54	.54	.54	.54	.54
Aug. 4	.26	.34	.40	.55	.62	.65	.68	.70	.73	.79	.87
Sept. 10	.28	.35	.36	.37	.37	.37	.37	.37	.37	.37	.37
NEW ENGLAND STATES—continued											
New Haven, Conn.:											
June 13	0.22	0.42	0.56	0.63	0.65	0.71	0.78	0.87	0.94	0.96	0.99
Aug. 4	.36	.56	.71	.81	.91	.93	.98	1.02	1.07	1.12	1.18
Aug. 25	.45	.80	1.40	1.71	1.87	1.94	1.98	1.98	1.98	1.98	1.98
MIDDLE ATLANTIC STATES											
Albany, N. Y.:											
July 31	.34	.56	1.06	1.20	1.25	1.26	1.26	1.29	1.29	1.29	1.29
Aug. 13	.28	.46	.78	.86	.90	.90	.90	.90	.90	.90	.90
Sept. 8	.23	.32	.39	.45	.47	.47	.49	.53	.56	.58	.60
New York, N. Y.:											
June 13	.21	.31	.41	.51	.64	.78	.98	1.11	1.13	1.15	1.16
Aug. 19	.20	.32	.55	.62	.74	.77	.88	1.08	1.26	1.42	1.62
Harrisburg, Pa.:											
Aug. 3	.37	.64	1.18	1.49	1.50	1.50	1.50	1.51	1.51	1.51	1.51
Sept. 29	.20	.31	.38	.45	.51	.53	.67	.85	.87	.87	.88
Philadelphia, Pa.:											
Jan. 30	.20	.30	.48	.61	.71	.73	.74	.75	.80	.81	.82
April 19	.34	.42	.48	.49	.59	.63	.67	1.00	1.06	1.09	1.09
April 26	.14	.24	.41	.56	.68	.74	.85	.94	1.01	1.10	1.17
May 9	.20	.35	.50	.58	.64	.66	.75	.83	.83	.83	.83
June 17	.24	.46	.56	.57	.57	.57	.57	.57	.57	.69	.71
June 20	.28	.34	.35	.35	.35	.35	.35	.35	.35	.35	.35
July 30	.22	.41	.76	.88	.88	.88	.88	.88	.88	1.19	1.45
Aug. 14	.27	.38	.42	.42	.43	.43	.43	.43	.43	.43	.43
Aug. 19	.21	.33	.54	.71	.87	1.06	1.30	1.53	1.73	2.04	2.21
Sept. 30	.28	.39	.53	.59	.65	.66	.67	.67	.67	.70	.70
Reading, Pa.:											
May 22	.40	.70	1.01	1.09	1.09	1.10	1.11	1.12	1.13	1.24	1.26
June 30	.41	.63	1.22	1.55	1.71	1.79	1.90	2.43	2.77	2.89	2.90
July 27	.25	.42	.70	.80	.88	.92	.95	.97	.99	.99	1.00
Aug. 13	.24	.35	.65	.79	.83	.84	.86	.94	.98	.98	.98
Sept. 4	.24	.37	.52	.60	.65	.67	.72	.82	.89	.90	.90
Scranton, Pa.:											
Feb. 15 [1]	.26	.35	.38	.41	.44	.47	.50	.52	.56	.59	.60
May 9	.35	.50	.60	.60	.61	.61	.61	.61	.61	.92	1.05
Aug. 13	.25	.40	.50	.54	.58	.58	.59	.59	.59	.59	.59
Aug. 13	.28	.37	.44	.45	.47	.53	.56	.56	.56	.56	.56
Aug. 24	.24	.38	.71	.81	.85	.85	.86	.95	.98	.98	.98
Sept. 1	.20	.32	.35	.36	.36	.36	.36	.36	.36	.36	.36
Sept. 29	.28	.35	.36	.36	.38	.42	.44	.46	.47	.47	.49
Atlantic City, N. J.:											
Aug. 19	.21	.38	.72	.92	1.18	1.39	1.71	1.79	1.91	2.09	2.19
Oct. 2	.17	.29	.49	.54	.70	.75	.78	.88	.93	.96	.96

[1] Estimated.

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
MIDDLE ATLANTIC STATES—con.											
Sandy Hook, N. J.:											
May 23	0.57	0.83	0.95	0.99	1.00	1.00	1.02	1.02	1.02	1.02	1.02
June 13–14	.22	.33	.55	.62	.69	.72	.77	.80	.81	.82	.84
Aug. 4	.22	.36	.38	.39	.39	.39	.48	.65	.65	.75	.75
Aug. 19	.23	.43	.74	1.02	1.21	1.42	1.75	1.97	2.13	2.41	2.64
Oct. 21	.17	.29	.41	.43	.48	.53	.56	.59	.62	.71	.76
Trenton, N. J.:											
Apr. 6	.24	.37	.52	.57	.64	.69	.77	.84	.93	1.04	1.14
June 13	.33	.38	.39	.41	.51	.59	.69	.71	.73	.79	.81
June 30	.48	.88	1.29	1.68	2.18	2.34	2.74	2.77	2.78	2.78	2.78
July 27	.25	.41	.46	.48	.49	.50	.51	.53	.54	.54	.54
Aug. 18	.59	1.08	1.46	1.93	1.98	1.99	1.99	1.99	1.99	2.00	2.00
Aug. 19	.16	.23	.35	.45	.72	.90	1.06	1.32	1.47	1.72	2.05
Sept. 30	.17	.29	.39	.44	.50	.63	.81	.81	.82	.82	.82
Baltimore, Md.:											
Apr. 26	.54	.88	1.28	1.48	2.02	2.14	2.16	2.17	2.17	2.17	2.17
May 28	.27	.46	.61	.61	.61	.61	.61	.61	.61	.61	.61
June 13	.30	.33	.40	.41	.42	.42	.42	.42	.43	.43	.43
June 13	.29	.49	.62	.67	.71	.73	.75	.77	.82	.93	1.05
Aug. 19	.19	.36	.55	.72	.92	1.03	1.20	1.31	1.45	1.56	1.75
Aug. 20	.32	.41	.55	.55	.59	.59	.59	.59	.60	.60	.60
Sept. 10	.31	.38	.51	.65	.66	.67	.73	.76	.76	.76	.76
Washington, D. C.:											
June 8	.35	.41	.44	.48	.50	.50	.51	.54	.58	.62	.64
June 13	.36	.52	.90	1.12	1.38	1.39	1.41	1.53	1.54	1.62	1.95
Aug. 19	.19	.36	.67	.79	1.07	1.42	1.61	1.71	1.91	2.21	2.38
Sept. 4	.45	.80	1.31	1.81	2.45	2.85	3.68	3.81	3.91	3.99	4.01
Sept. 10	.37	.65	.79	.79	.81	.85	.86	.87	.87	.88	.88
Cape Henry, Va.:											
Feb. 21	.23	.38	.51	.56	.63	.68	.77	.83	.84	.84	.86
Mar. 27	.28	.49	.65	.73	.74	.78	.85	.87	.88	.90	.95
Apr. 18	.24	.47	.73	.98	1.19	1.24	1.35	1.44	1.47	1.49	1.50
Apr. 27	.41	.49	.50	.51	.51	.51	.52	.52	.52	.52	.53
June 30	.52	.82	.95	1.42	1.71	1.78	1.80	1.99	2.02	2.11	2.14
July 18	.64	1.01	1.55	1.86	1.89	1.91	1.91	1.92	2.01	2.04	2.04
Aug. 26	.18	.27	.44	.50	.57	.63	.64	.64	.64	.64	.64
Aug. 29	.21	.30	.49	.74	.99	1.03	1.07	1.11	1.12	1.25	1.57
Oct. 1	.61	.91	.95	1.07	1.14	1.17	1.74	2.19	2.42	2.60	2.73
Norfolk, Va.:											
Feb. 3	.19	.32	.37	.38	.40	.41	.42	.43	.43	.43	.43
Apr. 18	.29	.48	.50	.52	.57	.67	.73	.81	.87	.90	.91
Apr. 27	.27	.47	.52	.52	.52	.53	.53	.53	.53	.53	.53
June 12	.28	.40	.40	.40	.40	.43	.49	.55	.61	.61	.68
June 15	.29	.50	.62	.63	.67	.68	.71	.72	.72	.75	.76
June 28	.21	.39	.63	.70	.84	.92	.96	.98	1.00	1.01	1.01
June 29	.33	.64	.72	.78	.81	.82	.87	.93	.99	1.07	1.11
June 30	.29	.44	.56	.58	.60	.72	.74	.79	.79	.84	.85
July 10	.66	1.11	1.84	2.69	3.22	3.34	4.47	4.80	4.80	4.80	4.80
July 18	.37	.60	.84	.93	.96	.96	.96	.98	.98	.98	.98
July 24	.26	.46	.69	.91	1.01	1.06	1.14	1.19	1.19	1.23	1.27
Aug. 16	.22	.36	.49	.59	.63	.65	.65	.65	.67	.71	.76
Aug. 24	.34	.61	1.11	1.48	1.67	1.86	1.86	1.86	1.86	1.89	1.89
Oct. 1	.25	.35	.56	.63	.72	.77	.81	.84	.85	.86	.90
Richmond, Va.:											
Apr. 6	.20	.29	.48	.51	.55	.59	.61	.63	.64	.66	.66
Apr. 27	.20	.30	.36	.37	.38	.39	.39	.39	.40	.40	.40
May 21	.25	.37	.51	.56	.61	.61	.62	.62	.62	.62	.62
June 13	.25	.34	.46	.62	.65	.66	.88	.89	.90	.96	1.13
June 29	.12	.21	.40	.52	.58	.64	.68	.71	.73	.78	.83
July 5	.25	.37	.57	.62	.64	.66	.66	.67	.67	.67	.67
July 5	.19	.36	.44	.48	.55	.59	.60	.60	.60	.60	.60
July 10	.23	.34	.39	.40	.41	.41	.41	.41	.41	.41	.41
Aug. 18	.27	.42	.75	1.05	1.28	1.57	1.68	1.77	1.85	1.98	2.03
Sept. 17	.20	.34	.47	.56	.64	.64	.64	.64	.64	.64	.64
Oct. 1	.42	.63	.76	.80	.82	.85	.95	.97	.97	.98	.98
Lynchburg, Va.:											
Mar. 6	.17	.30	.41	.49	.59	.65	.73	.77	.79	.83	.87
June 28	.30	.48	.63	.86	.94	1.00	1.02	1.02	1.09	1.11	1.11
July 5	.42	.73	.97	.98	.98	.98	.98	.98	.98	.98	.98
July 29	.22	.33	.41	.56	.66	.70	.93	.99	1.04	1.06	1.07
Aug. 3	.38	.60	.72	.73	.73	.73	.73	.73	.74	.74	.88
Aug. 18	.23	.31	.45	.56	.80	1.01	1.24	1.39	1.48	1.58	1.68
FLORIDA PENINSULA											
Key West, Fla.:											
Apr. 2	.32	.53	.96	1.35	1.63	1.75	1.76	1.78	1.83	1.98	2.09
Apr. 13	.34	.52	.65	.65	.66	.66	.66	.66	.66	.71	.74
July 1	.35	.58	.76	.80	.84	.86	1.07	1.12	1.12	1.13	1.13
Oct. 19	.41	.70	1.30	1.77	2.48	3.04	3.34	3.72	3.92	4.23	4.48
Dec. 28–29	.42	.60	.98	1.32	1.68	1.71	1.90	1.92	1.92	2.14	2.16
Miami, Fla:											
May 10	.46	.76	1.14	1.37	1.59	2.08	2.75	2.75	2.81	2.84	2.85
July 7	.30	.52	.89	1.14	1.47	1.59	1.71	1.73	1.73	1.73	1.73
July 12	.33	.61	1.11	1.43	1.94	2.39	2.79	2.92	2.96	3.02	3.12
Aug. 29	.51	.93	1.63	1.95	2.08	2.09	2.13	2.14	2.15	2.17	2.18
Oct. 11	.49	.81	1.07	1.11	1.23	1.52	1.57	1.57	1.57	1.57	1.57
Oct. 19	.27	.40	.75	.91	1.04	1.34	1.52	1.73	2.04	2.28	2.36
Oct. 30	.34	.55	.92	1.04	1.15	1.44	1.89	1.97	2.04	2.25	2.68
Nov. 19	.29	.49	.87	1.18	1.38	1.49	1.59	1.87	2.07	2.16	2.30
Dec. 28–29	.28	.37	.53	.70	.99	1.23	1.46	1.57	1.61	1.77	1.77

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
FLORIDA PENINSULA—continued											
Tampa, Fla.:											
May 29	0.37	0.54	0.67	0.78	0.80	0.80	0.81	0.82	0.82	0.82	0.82
May 30	.39	.63	.65	.65	.65	.65	.65	.65	.65	.65	.65
May 30	.56	1.00	1.28	1.29	1.29	1.31	1.32	1.35	1.35	1.35	1.35
June 7	.29	.53	.88	.96	.99	1.00	1.00	1.00	1.01	1.01	1.01
June 10	.34	.52	.57	.58	.58	.58	.58	.58	.58	.58	.58
June 13	.35	.53	.87	.95	.99	1.03	1.06	1.10	1.14	1.18	1.24
July 5	.37	.63	1.05	1.21	1.24	1.25	1.25	1.25	1.25	1.55	1.65
July 6	.41	.72	1.20	1.58	1.90	2.08	2.21	2.23	2.25	2.28	2.30
July 7	.27	.55	.91	.96	.98	.99	1.00	1.01	1.02	1.02	1.02
Aug. 6	.22	.42	.72	.83	.85	.86	.87	.87	.93	1.17	1.19
Aug. 23	.23	.44	.74	.91	1.08	1.20	1.22	1.22	1.23	1.23	1.23
Aug. 25	.36	.67	1.16	1.66	1.90	1.92	1.95	2.14	2.17	2.17	2.17
Sept. 8	.29	.56	.90	.98	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Sept. 20	.31	.49	.74	.87	1.17	1.26	1.29	1.30	1.30	1.30	1.30
Oct. 3	.31	.56	.75	.91	1.02	1.09	1.31	1.50	1.65	1.91	1.91
EAST GULF STATES											
Atlanta, Ga.:											
June 12	.42	.70	.87	.99	1.01	1.01	1.01	1.01	1.01	1.01	1.04
June 22	.42	.72	1.16	1.56	1.78	2.12	2.23	2.25	2.25	2.26	2.26
July 25	.42	.66	.94	1.13	1.13	1.13	1.13	1.13	1.13	1.14	1.16
Macon, Ga.:											
Feb. 3	.41	.65	.70	.71	.74	.75	.79	.81	.81	.82	.82
Feb. 15	.35	.57	.71	.77	.86	.86	.87	.90	.99	1.04	1.05
Feb. 21	.42	.60	.84	1.14	1.23	1.27	1.32	1.33	1.36	1.43	1.44
Mar. 26–27	.22	.38	.69	.97	1.14	1.21	1.32	1.36	1.39	1.50	1.59
May 10	.32	.57	.75	.78	.80	.91	.93	.93	.93	.93	.93
July 6	.50	.75	.96	1.09	1.11	1.12	1.20	1.22	1.24	1.25	1.25
July 24	.59	.91	1.43	1.75	1.96	1.99	2.00	2.00	2.00	2.00	2.00
Aug. 24	.45	.81	1.05	1.14	1.21	1.31	1.37	1.44	1.47	1.49	1.49
Aug. 25	.58	.98	1.15	1.23	1.88	2.30	2.35	2.38	2.39	2.47	2.54
Apalachicola, Fla.:											
Jan. 30	.34	.52	.76	.85	.87	.88	.89	.98	1.01	1.01	1.02
Feb. 15	.33	.55	.68	.68	.73	.76	.76	.78	.78	.78	.78
Apr. 28	.53	.82	.93	.99	1.05	1.06	1.09	1.10	1.10	1.11	1.11
May 30	.47	.67	.78	.79	.79	.80	.80	.80	.81	.81	.82
May31	.26	.43	.71	.92	1.09	1.20	1.22	1.23	1.26	1.29	1.29
June 29	.35	.55	1.04	1.25	1.27	1.28	1.28	1.28	1.28	1.28	1.28
July 6	.34	.54	.74	.81	.95	1.00	1.01	1.01	1.01	1.01	1.01
July 24	.23	.39	.72	.89	1.05	1.09	1.11	1.13	1.14	1.19	1.44
Aug. 17	.30	.47	.76	.87	.95	.99	1.05	1.13	1.18	1.25	1.30
Sept. 16	.39	.65	1.03	1.26	1.54	1.66	1.76	1.77	1.78	1.80	2.01
Sept. 17	.31	.55	.59	.60	.62	.63	.63	.63	.63	.63	.63
Pensacola, Fla.:											
Feb. 3	.33	.45	.68	.89	1.20	1.35	1.39	1.41	1.41	1.42	1.42
June 29	.62	.87	1.31	1.35	1.35	1.35	1.35	1.68	1.69	1.69	1.69
Aug. 14	.35	.47	.73	1.10	1.37	1.58	1.64	1.67	1.72	1.86	2.18
Aug. 16	.34	.57	.82	1.14	1.52	2.02	2.34	2.59	2.84	3.12	3.35
Aug. 20	.23	.39	.70	.95	1.21	1.33	1.34	1.34	1.35	1.36	1.36
Dec. 26	.47	.77	.94	1.02	1.11	1.23	1.33	1.48	1.60	1.81	1.93
Birmingham, Ala.:											
Feb. 3	.29	.49	.76	.92	.98	1.01	1.01	1.01	1.02	1.03	1.17
May 22	.43	.77	1.37	1.76	1.80	1.82	1.83	1.84	1.84	2.08	2.09
June 8	.23	.39	.75	.93	.98	1.00	1.03	1.04	1.05	1.07	1.07
Sept. 4	.36	.70	1.20	1.44	1.69	1.84	1.89	1.92	1.94	1.95	1.95
Sept. 18	.34	.66	1.19	1.62	2.37	2.65	2.80	2.83	2.88	2.96	3.06
Mobile, Ala.:											
May 24	.32	.50	.90	1.25	1.40	1.47	1.50	1.51	1.51	1.51	1.53
June 6	.37	.66	1.14	1.36	1.53	1.60	1.63	1.64	1.64	1.68	1.72
June 16	.36	.63	.97	1.26	1.80	2.20	2.51	2.64	2.67	2.74	2.78
July 21	.63	1.22	1.79	2.24	2.41	2.42	2.46	2.46	2.46	2.46	2.46
Aug. 15	.66	1.05	1.20	1.27	1.33	1.36	1.38	1.39	1.40	1.49	1.66
Aug. 16	.37	.48	.65	.69	.71	.72	.77	.82	.82	.82	.82
Aug. 21	.25	.46	.80	1.13	1.38	1.44	1.45	1.45	1.52	1.53	1.53
Sept. 26	.32	.53	.83	1.01	1.23	1.32	1.88	2.15	2.28	2.53	2.61
Dec. 26	.58	.97	1.27	1.37	1.45	1.49	1.55	1.58	1.65	1.72	1.78
Montgomery, Ala.:											
Mar. 30	.27	.44	.76	1.16	1.56	1.75	1.82	1.89	1.91	1.98	2.09
May 31	.40	.71	.80	.81	.82	.82	.82	.82	.84	.86	.88
June 25	.55	.84	1.26	1.65	1.87	2.03	2.04	2.04	2.04	2.04	2.04
June 26	.34	.60	.94	1.04	1.06	1.07	1.08	1.08	1.08	1.09	1.09
Aug. 16	.23	.45	.75	1.01	1.39	1.70	2.08	2.47	2.61	2.68	2.71
Wytheville, Va.											
May 11	.29	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
May 25	.27	.40	.53	.57	.63	.64	.64	.64	.64	.64	.64
June 27	.42	.72	1.10	1.24	1.31	1.35	1.37	1.38	1.38	1.39	1.39
June 28	.19	.31	.42	.42	.42	.42	.42	.42	.42	.42	.42
July 8	.28	.49	.60	.75	.83	.84	1.01	1.36	1.40	1.40	1.40
Aug. 3	.30	.39	.4	.41	.41	.41	.41	.41	.41	.41	.41
Aug. 7	.35	.57	.59	.61	.61	.61	.61	.61	.61	.61	.61
SOUTH ATLANTIC STATES											
Asheville, N. C.:											
June 19	.38	.69	1.23	1.33	1.34	1.34	1.34	1.34	1.34	1.34	1.34
Aug. 11	.39	.65	.98	1.06	1.14	1.18	1.19	1.20	1.20	1.23	1.29

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
SOUTH ATLANTIC STATES—con.											
Charlotte, N. C.:											
May 25	0.52	0.86	1.31	1.65	1.99	2.05	2.09	2.12	2.12	2.13	2.14
July 20	.44	.75	.79	.81	.81	.81	.83	.88	.92	.98	1.03
July 21	.33	.45	.78	.98	1.27	1.57	1.97	2.38	2.85	3.40	3.63
Aug. 24	.38	.70	1.20	1.43	1.50	1.54	1.58	1.61	1.64	1.69	1.74
Greensboro, N. C.:											
June 8	.27	.52	.64	.65	.66	.66	.69	.71	.71	.73	.73
June 9	.29	.53	.74	1.00	1.00	1.01	1.01	1.01	1.01	1.02	1.03
July 20	.33	.56	.87	1.18	1.33	1.58	1.64	1.66	1.71	1.77	1.80
Aug. 6	.47	.68	1.00	1.12	1.15	1.18	1.19	1.19	1.19	1.19	1.19
Aug. 14	.30	.53	.89	1.12	1.15	1.56	1.88	2.01	2.02	2.03	2.03
Aug. 24	.31	.53	1.06	1.33	1.70	1.89	2.04	2.06	2.08	2.08	2.10
Oct. 1	.27	.47	.67	.70	.73	.74	.75	.75	.76	.76	.76
Hatteras, N. C.:											
May 13	.53	.65	.81	.83	.88	.94	.95	.96	1.12	1.23	1.28
June 14	.31	.53	.84	.88	.93	1.10	1.19	1.25	1.29	1.35	1.39
Aug. 27	.59	.98	1.34	1.54	1.73	1.75	1.75	1.76	1.76	1.76	1.76
Sept. 2	.32	.59	.90	1.01	1.08	1.11	1.15	1.18	1.19	1.20	1.20
Raleigh, N. C.:											
May 23	.46	.62	.81	.92	.95	.95	.95	.95	.95	.95	.95
May 24	.35	.63	.98	1.44	1.60	1.62	1.62	1.62	1.62	1.62	1.62
May 26	.33	.59	.82	.97	1.02	1.03	1.03	1.04	1.04	1.04	1.04
June 30	.42	.54	.99	1.12	1.29	1.29	1.32	1.32	1.32	1.32	1.32
July 9	.28	.41	.41	.51	.54	.67	.68	.69	.69	.70	.70
July 20	.33	.61	.95	1.43	1.79	2.03	2.20	2.26	2.31	2.33	2.34
Aug. 3	.30	.45	.78	1.06	1.15	1.15	1.17	1.18	1.18	1.18	1.18
Aug. 18	.23	.35	.68	.93	1.36	1.58	1.75	1.81	1.91	2.17	2.21
Sept. 26	.29	.51	.61	.67	.94	1.08	1.33	1.38	1.39	1.41	1.72
Oct. 1	.37	.64	.86	1.05	1.15	1.27	1.45	1.51	1.52	1.55	1.66
Wilmington, N. C.:											
May 22	.37	.57	.86	1.09	1.21	1.30	1.69	1.81	1.81	1.81	1.82
June 4	.30	.49	.74	.76	.76	.77	.80	.80	.80	.80	.82
July 10	.32	.48	.58	.75	.93	1.07	1.22	1.25	1.28	1.31	1.31
July 21	.35	.58	.87	1.06	1.57	1.93	2.10	2.40	2.80	2.92	3.24
Aug. 3	.36	.53	.79	.88	.93	.94	.96	.96	.97	.98	.98
Oct. 1	.35	.50	.74	.78	.95	1.01	1.03	1.03	1.03	1.05	1.05
Greenville, S. C.:											
July 20	.29	.50	.85	1.19	1.28	1.33	1.41	1.52	1.59	1.62	1.62
July 21	.27	.51	.74	.81	.83	.84	.84	.84	.84	.84	.85
July 30	.37	.64	.90	1.08	1.25	1.31	136	1.37	1.37	1.38	1.40
Aug. 1	.27	.53	.76	.88	.92	.92	.92	.96	1.05	1.05	1.05
Aug. 10	.29	.50	.65	.70	.84	.88	.92	.93	.93	.93	.93
Aug. 17–18	.20	.24	.33	.40	.49	.63	.84	1.07	1.19	1.42	1.52
Charleston, S. C.:											
Feb. 26	.33	.44	.69	.93	1.43	1.77	2.30	2.35	2.35	2.39	2.42
Feb. 28	.37	.58	.79	.90	1.24	1.41	1.49	1.58	1.58	1.58	1.58
June 15	.27	.48	.76	.92	1.11	1.18	1.23	1.40	1.61	1.67	1.70
July 21	.42	.76	1.06	1.46	1.90	1.97	2.01	2.07	2.12	2.18	2.21
July 22	.36	.58	1.26	1.68	2.69	3.26	3.37	3.45	3.48	3.50	3.50
July 28	.35	.55	.89	1.01	1.12	1.13	1.13	1.13	1.13	1.13	1.13
Aug. 25	.31	.55	.97	1.18	1.46	1.74	1.79	1.82	1.85	1.85	1.85
Columbia, S. C.:											
Feb. 21	.49	.57	.70	.75	.84	.90	.94	.96	1.00	1.07	1.11
May 23	.51	.87	1.09	1.11	1.17	1.45	1.50	1.52	1.55	1.61	1.62
Aug. 3	.37	.62	.85	.92	.94	.94	.94	.94	.94	.94	.94
Aug. 14	.23	.43	.69	.73	.73	.74	.74	.74	.74	.74	.74
Aug. 24	.33	.53	.62	.64	.65	.65	.84	.89	.94	1.02	1.04
Sept. 27	.30	.47	.78	1.03	1.34	1.63	2.08	2.40	2.43	2.47	2.47
Augusta, Ga.:											
July 25	.46	.78	.96	1.02	1.04	1.05	1.07	1.09	1.09	1.09	1.09
Sept. 27	.30	.38	.76	.84	1.03	1.14	1.32	1.46	1.59	1.72	1.89
Savannah, Ga.:											
June 13	.32	.52	.60	.77	.90	.90	1.07	1.10	1.11	1.11	1.11
July 10	.32	.55	.83	1.15	1.42	1.45	1.46	1.46	1.46	1.47	1.47
July 22	.34	.56	.74	.77	.89	1.23	1.28	1.28	1.28	1.28	1.28
July 23	.26	.48	.72	.86	.92	1.12	1.12	1.12	1.12	1.12	1.12
Jacksonville, Fla.:											
May 23	.31	.62	1.14	1.61	1.95	2.18	2.20	2.20	2.20	2.20	2.20
June 14	.33	.60	.85	.95	1.06	1.12	1.17	1.19	1.20	1.24	1.25
July 7	.47	.92	1.51	1.65	1.69	1.69	1.69	1.69	1.69	1.69	1.77
Sept. 23	.31	.53	.72	.76	.80	.81	.87	.91	1.19	1.43	1.53
Oct. 11	.41	.65	.91	1.19	1.60	1.65	1.71	1.76	1.77	1.77	1.77
Meridian, Miss.:											
Jan. 4	.30	.47	.73	.85	.96	1.00	1.00	1.01	1.01	1.01	1.01
Jan. 12	.39	.51	.72	.83	.97	1.01	1.09	1.12	1.13	1.16	1.17
Apr. 6	.57	.67	.73	.75	.78	.82	.82	.84	.84	.84	.84
June 3	.46	.76	1.10	1.12	1.12	1.12	1.13	1.15	1.18	1.21	1.22
June 6	.34	.52	.85	1.07	1.34	1.48	1.49	1.54	1.55	1.58	1.63
July 20	.43	.61	1.06	1.06	1.06	1.08	1.08	1.09	1.09	1.09	1.09
Vicksburg, Miss.:											
Apr. 16	.27	.52	.71	.92	1.01	1.13	1.14	1.14	1.15	1.15	1.15
June 3	.25	.44	.73	.88	1.02	1.43	1.66	1.75	1.85	2.00	2.07
July 20	.35	.58	.86	1.12	1.21	1.22	1.22	1.22	1.22	1.22	1.22
Sept. 29	.35	.50	.94	1.25	1.86	2.19	2.24	2.25	2.29	2.32	2.33
Oct. 27	.23	.40	.71	.73	.74	.74	.74	.74	.74	.74	.74
New Orleans, La.:											
Feb. 21	.57	.91	1.32	1.40	1.47	1.50	1.53	1.56	1.58	1.60	1.64
May 24	.25	.47	.71	.72	.73	.73	.73	.73	.73	.73	.73
May 27	.23	.42	.75	.93	1.10	1.49	1.57	1.57	1.57	1.57	1.59
May 28	.40	.74	1.03	1.22	1.37	1.45	1.51	1.53	1.55	1.58	1.67
June 7	.37	.66	.81	.85	.85	.85	1.03	1.04	1.04	1.04	1.04
June 25	.42	.77	1.34	1.56	1.68	1.69	1.69	1.69	1.69	1.69	1.69
June 28	.38	.69	1.04	1.15	1.19	1.19	1.19	1.19	1.19	1.19	1.19

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
SOUTH ATLANTIC STATES—con.											
New Orleans La.—Continued.											
July 26	0.44	0.76	1.08	1.28	1.44	1.47	1.48	1.48	1.48	1.48	1.48
Dec. 26	.35	.58	.70	.78	.84	.90	.95	1.07	1.12	1.24	1.36
WEST GULF STATES											
Shreveport, La.:											
Aug. 17	.26	.53	.76	1.03	1.36	1.70	1.81	1.89	1.89	1.90	1.92
Fort Smith, Ark.:											
June 22	.52	.67	.68	.68	.68	.68	.68	.68	.68	.68	.68
Oct. 9	.34	.56	.80	.87	.90	.91	.92	.93	.93	.93	.93
Oct. 26	.25	.44	.76	.87	.93	.93	.93	.93	.93	.93	.93
Little Rock, Ark.:											
May 22	.34	.58	.91	.98	1.04	1.06	1.07	1.07	1.08	1.09	1.10
June 5	.48	.69	.74	.74	.74	.74	.74	.74	.74	.74	.74
July 2	.63	.90	1.03	1.06	1.08	1.09	1.10	1.10	1.10	1.10	1.10
Austin, Tex.:											
Mar. 28	.47	.66	.68	.68	.68	.68	.68	.68	.68	.68	.68
May 25	.41	.72	1.23	1.51	1.67	1.71	1.71	1.72	1.74	1.75	1.75
July 31	.29	.54	.66	.67	.68	.68	.68	.68	.68	.68	.68
Brownsville, Tex.:											
Apr. 21	.53	.84	1.36	1.71	1.99	2.13	2.63	2.70	2.76	2.83	2.92
May 13	.45	.86	1.40	1.85	2.56	3.67	4.37	4.56	4.59	4.61	4.67
Corpus Christi, Tex.:											
Apr. 13	.39	.66	1.02	1.15	1.18	1.38	1.46	1.48	1.48	1.49	1.51
May 31	.38	.63	.77	.89	.92	.98	1.00	1.10	1.12	1.16	1.21
June 7	.25	.49	.80	.89	1.09	1.20	1.28	1.46	1.48	1.64	1.69
Dallas, Tex.:											
Apr. 5	.26	.47	.72	.89	.99	1.03	1.04	1.33	1.53	1.82	1.82
Fort Worth, Tex.:											
June 5	.42	.77	1.06	1.08	1.08	1.08	1.26	1.30	1.30	1.30	1.30
June 18	.23	.41	.70	.85	1.11	1.37	1.54	1.60	1.62	1.66	1.70
Aug. 8	.36	.66	.84	.86	.88	.89	.90	.91	.91	.91	.94
Galveston, Tex.:											
July 11–12	.38	.51	.71	.85	1.03	1.28	1.67	1.79	1.87	1.99	2.60
July 31	.41	.65	1.14	1.30	1.34	1.35	1.35	1.57	1.88	1.91	1.92
Aug. 20	.37	.60	.91	1.00	1.12	1.16	1.18	1.18	1.18	1.18	1.18
Sept. 16	.43	.47	.47	.47	.47	.47	.47	.47	.47	.47	.47
Oct. 10	.25	.44	.81	1.00	1.04	1.04	1.04	1.04	1.10	1.27	1.28
Houston, Tex.:											
Feb. 2	.48	.62	.63	.63	.79	.89	.90	.91	1.10	1.12	1.13
Feb. 25	.26	.41	.65	.95	1.10	1.13	1.15	1.15	1.16	1.16	1.16
May 30	.34	.59	.73	.73	.87	.88	.88	.89	.89	.89	.89
July 9	.31	.54	.61	.63	.71	.84	.86	.86	.86	.86	.89
Palestine, Tex.:											
Feb. 2	.32	.54	.76	.83	.87	.87	.87	.88	.95	1.03	1.05
Mar. 25	.30	.50	.70	.82	.90	.92	.97	.98	1.05	1.13	1.13
May 17	.34	.54	.92	1.13	1.54	1.67	1.69	1.72	1.78	1.90	1.94
June 19	.27	.47	.67	.74	.84	.84	.84	.89	1.06	1.07	1.09
Aug. 19	.29	.56	.93	1.44	1.67	1.79	1.81	1.81	1.81	1.81	1.81
Port Arthur, Tex.:											
Apr. 16	.40	.59	.68	.82	.91	.91	.92	.92	.93	.93	.93
May 18	.40	.77	1.22	1.39	1.73	1.80	1.82	1.83	1.83	1.84	1.84
June 2	.46	.70	.78	.81	.85	1.01	1.09	1.12	1.16	1.21	1.31
San Antonio, Tex.:											
May 30	.43	.75	1.26	1.91	2.41	2.58	2.65	2.69	2.69	2.69	2.71
Aug. 4	.27	.52	.90	1.16	1.54	1.73	1.79	1.83	1.85	1.90	1.95
Aug. 20	.35	.63	1.00	1.42	1.95	2.20	2.29	2.32	2.32	2.33	2.33
OHIO VALLEY AND TENNESSEE											
Chattanooga Tenn.:											
Feb. 2	.40	.45	.49	.50	.54	.61	.61	.62	.62	.62	.62
May 19	.38	.63	.69	.71	.73	.76	.79	.81	1.02	1.24	1.28
June 27	.42	.62	.75	.77	.80	.80	.80	.80	.81	.89	.89
Aug. 24	.29	.51	.63	.65	.69	.70	.72	.72	.73	.74	.74
Sept. 4	.38	.60	.92	1.01	1.11	1.12	1.12	1.12	1.12	1.12	1.12
Knoxville, Tenn.:											
June 30	.28	.46	.79	1.01	1.06	1.10	1.16	1.20	1.30	1.37	1.40
June 30	.40	.62	.74	.76	.76	.76	.76	.76	.76	.76	.76
July 8–9	.52	.95	1.76	2.57	3.38	3.52	3.57	3.57	3.57	3.57	3.57
July 10	.30	.50	.56	.72	.91	.92	.95	1.21	1.42	1.83	1.94
Memphis, Tenn.:											
Feb. 9	.24	.36	.70	.82	.95	1.24	1.42	1.50	1.65	1.92	2.09
May 21	.46	.79	1.44	1.71	1.83	1.86	1.98	1.99	2.00	2.00	2.00
June 9	.27	.51	.68	.70	.70	.70	.70	.70	.70	.70	.70
Aug. 23	.26	.48	.90	1.07	1.33	1.36	1.45	1.66	1.69	1.70	1.70
Nashville, Tenn.:											
June 22	.33	.57	.97	1.05	1.06	1.07	1.08	1.09	1.09	1.09	1.09
July 20	.33	.48	.82	.95	1.06	1.17	1.26	1.28	1.31	1.40	1.49
Louisville, Ky.:											
June 9	.33	.50	.70	.72	.73	.73	.73	.73	.73	.73	.73
June 10	.19	.29	.41	.46	.61	.66	.68	.69	.69	.70	.70
June 18	.14	.22	.40	.55	.64	.81	.91	1.18	1.24	1.31	1.35
June 19	.26	.35	.39	.39	.39	.42	.48	.49	.51	.53	.54
June 20	.17	.31	.33	.33	.33	.33	.33	.33	.33	.33	.33
July 24	.29	.47	.84	1.08	1.21	1.29	1.37	1.48	1.93	2.53	2.61
July 26	.21	.40	.70	.76	.77	.78	.78	.78	.78	.78	.78
July 28	.45	.62	.68	.71	.86	.92	.93	.94	.94	.94	.94
Aug. 3	.29	.39	.46	.48	.48	.48	.48	.48	.48	.48	.48
Aug. 13	.30	.31	.31	.31	.31	.34	.36	.36	.38	.38	.42
Aug. 16	.24	.40	.57	.59	.60	.61	.61	.61	.61	.61	.61

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
LOWER LAKE REGION—con.											
Evansville, Ind.:											
Mar. 5	0.18	0.27	0.41	0.51	0.63	0.63	0.63	0.64	0.69	0.95	1.15
Apr. 15	.22	.40	.63	.77	.96	1.17	1.35	1.39	1.39	1.43	1.46
May 8	.35	.45	.51	.53	.53	.53	.53	.53	.56	.61	.61
June 10	.20	.35	.44	.71	.75	.75	.76	.76	.76	.76	.76
July 3	.34	.48	.79	.91	.94	.95	1.21	1.30	1.31	1.32	1.33
July 8	.30	.42	.61	.64	.64	.64	.67	.78	.89	.90	.90
July 25	.26	.37	.40	.46	.50	.50	.50	.50	.50	.50	.50
July 28	.31	.53	.77	.88	1.13	1.22	1.37	1.39	1.48	1.59	.164
Aug. 18	.40	.60	.89	.97	.98	.99	.99	1.00	1.00	1.00	1.00
Aug. 19	.26	.43	.53	.56	.56	.57	.58	.58	.58	.58	.58
Oct. 27	.22	.42	.59	.69	.83	.85	.87	.88	.88	.88	.88
Indianapolis, Ind.:											
Feb. 10	.25	.31	.34	.38	.45	.50	.52	.53	.53	.54	.55
June 10	.51	.79	1.02	1.10	1.18	1.21	1.23	1.23	1.24	1.24	1.24
June 19	.29	.34	.36	.37	.40	.41	.53	.55	.57	.61	.62
June 20	.40	.61	.67	.70	.76	.79	.81	.82	.85	.88	.92
July 8	.22	.30	.30	.31	.31	.31	.31	.31	.31	.31	.31
July 8	.19	.30	.36	.37	.38	.40	.43	.44	.45	.46	.46
July 18	.25	.39	.50	.51	.66	.88	1.16	1.22	1.27	1.29	1.46
July 27	.14	.28	.47	.62	.88	.91	.91	.91	.91	.91	.91
July 28	.52	.70	.97	1.17	1.24	1.87	2.08	2.09	2.10	2.11	2.12
Aug. 2	.25	.28	.30	.31	.32	.33	.36	.39	.40	.41	.41
Aug. 12–13	.25	.38	.39	.39	.39	.40	.47	.50	.61	.62	.62
Aug. 18	.20	.32	.48	.68	.94	1.14	1.21	1.25	1.29	1.39	1.49
Sept. 16	.20	.34	.39	.40	.40	.40	.40	.40	.40	.40	.40
Oct. 27	.29	.31	.33	.38	.45	.47	.47	.47	.47	.47	.47
Terre Haute, Ind.:											
Mar. 11	.24	.34	.54	.67	.75	.78	.86	.89	.89	.90	.91
Mar. 11	.29	.40	.62	.83	.99	1.09	1.13	1.14	1.27	1.29	1.36
Apr. 16	.28	.45	.71	.84	.97	1.05	1.19	1.38	1.50	1.66	1.80
June 9	.33	.42	.52	.54	.59	.61	.61	.62	.62	.62	.62
June 10	.31	.33	.35	.35	.36	.37	.38	.38	.38	.38	.38
July 6	.20	.33	.49	.69	.85	1.13	1.16	1.16	1.17	1.18	1.20
July 8	.24	.35	.56	.64	.66	.66	.67	.67	.67	.68	.68
July 25	.45	.73	.98	1.07	1.12	1.13	1.14	1.14	1.15	1.16	1.16
Aug. 8	.33	.42	.44	.47	.48	.49	.49	.49	.49	.49	.49
Aug. 19	.33	.60	1.17	1.40	1.48	1.48	1.52	1.58	1.62	1.63	1.64
Oct. 27	.38	.41	.43	.44	.45	.45	.46	.46	.46	.46	.46
Cincinnati, Ohio:											
Mar. 31	.23	.35	.39	.40	.41	.41	.45	.47	.47	.47	.47
Apr. 15	.22	.32	.46	.55	.68	.72	.73	.74	.75	.81	.88
May 21	.29	.45	.68	.73	.75	.76	.76	.76	.98	1.02	1.02
May 27	.25	.35	.44	.45	.45	.45	.45	.45	.45	.49	.49
June 10	.25	.33	.35	.36	.36	.37	.38	.40	.43	.49	.50
June 17	.15	.24	.41	.51	.60	.65	.73	.86	.96	1.07	1.26
June 28	.18	.29	.50	.51	.65	.67	.73	.77	.77	.79	.82
Aug. 3	.35	.53	.64	.64	.65	.65	.65	.65	.65	.65	1.09
Columbus, Ohio:											
July 26	.21	.39	.60	.62	.62	.62	.62	.63	.65	.65	.65
Oct. 26	.32	.42	.51	.52	.54	.54	.54	.54	.54	.54	.54
Dayton, Ohio:											
May 25	.22	.36	.52	.59	.75	.97	1.20	1.27	1.48	1.56	1.56
June 10	.25	.34	.46	.52	.56	.58	.59	.63	.63	.64	.66
June 18	.14	.19	.34	.46	.70	.85	.97	1.07	1.13	1.19	1.22
June 21	.19	.31	.41	.50	.51	.52	.52	.52	.52	.52	.52
June 28	.22	.29	.39	.50	.54	.56	.60	.63	.63	.63	.67
July 6	.57	.69	.71	.71	.71	.71	.71	.71	.71	.71	.71
July 29	.21	.32	.50	.61	.64	.64	.65	.65	.65	.65	.65
Aug. 13	.32	.43	.60	.71	.76	.95	1.03	1.03	1.03	1.03	1.03
Elkins, W. Va.:											
June 3	.32	.37	.42	.44	.45	.45	.45	.45	.45	.53	.53
June 28	.27	.44	.49	.53	.65	.71	.77	.83	.89	.91	.92
June 30	.24	.41	.67	.71	.71	.71	.72	.72	.72	.72	.72
July 5	.17	.26	.45	.51	.56	.60	.61	.62	.63	.63	.63
July 10	.14	.23	.40	.51	.53	.53	.53	.54	.54	.54	.54
July 29	.26	.38	.52	.56	.63	.69	.76	.80	.82	.90	.98
July 30	.39	.55	.58	.59	.59	.59	.59	.59	.59	.59	.59
Sept. 1	.22	.33	.48	.61	.70	.71	.72	.72	.72	.72	.72
Sept. 4	.18	.29	.42	.52	.55	.56	.58	.60	.60	.61	.61
Parkersburg, W. Va.:											
July 8	.47	.68	.82	.85	.85	.85	.85	.86	.87	.89	.89
July 13	.26	.27	.27	.27	.27	.27	.27	.27	.27	.27	.27
Oct. 26	.16	.27	.39	.57	.62	.65	.67	.69	.70	.76	.89
Pittsburgh, Pa.:											
June 28	.29	.45	.58	.63	.74	.96	.97	.99	1.01	1.03	1.16
July 29	.25	.41	.45	.46	.64	.64	.71	.71	.71	.71	.71
Sept. 29	.38	.45	.48	.49	.49	.49	.49	.51	.51	.52	.56
Oct. 27	.36	.41	.45	.47	.51	.52	.54	.55	.56	.56	.57
LOWER LAKE REGION											
Buffalo, N. Y.:											
Aug. 13	.20	.35	.56	.72	.72	1.15	1.20	1.21	1.21	1.22	1.29
Canton, N. Y.:											
June 23	.24	.40	.41	.42	.42	.42	.42	.42	.42	.42	.42
July 29	.21	.34	.39	.45	.58	.78	.92	.95	.95	.95	.95
Ithaca, N. Y.:											
May 27	.47	.77	.80	.80	.80	.80	.80	.80	.80	.80	.80
June 11	.33	.54	.70	.78	.78	.78	.78	.78	.78	.78	.78
July 27	.27	.49	.73	.86	1.15	1.35	1.76	2.19	2.21	2.25	2.26
Aug. 4	.17	.33	.46	.56	.61	.63	.66	.71	.74	.78	.80

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
OHIO VALLEY AND TENNESSEE—con.											
Syracuse, N. Y.:											
Aug. 7	0.19	0.33	0.43	0.45	0.47	0.48	0.48	0.49	0.49	0.49	0.49
Oswego, N. Y.:											
Oct. 10	.20	.33	.40	.44	.46	.49	.52	.53	.54	.59	.61
Rochester, N. Y.:											
June 1	.24	.37	.43	.48	.56	.63	.95	1.01	1.04	1.05	1.05
June 22	.32	.36	.38	.38	.38	.38	.38	.38	.38	.38	.38
June 29	.27	.43	.48	.48	.49	.49	.50	.50	.50	.50	.50
Aug. 12	.28	.32	.34	.36	.37	.38	.38	.39	.39	.39	.39
Erie, Pa.:											
May 28	.20	.32	.45	.63	.76	.93	.96	.96	.96	.96	.96
June 22	.20	.31	.35	.38	.41	.42	.42	.42	.44	.45	.45
July 8	.23	.35	.46	.46	.47	.47	.47	.47	.47	.51	.56
July 13	.36	.53	.76	.92	.98	1.00	1.00	1.00	1.01	1.01	1.01
July 26	.32	.42	.44	.54	.67	.69	.85	.89	1.06	1.16	1.28
July 29	.28	.35	.36	.37	.37	.37	.37	.38	.46	.57	.58
Aug. 21	.22	.32	.35	.35	.36	.36	.36	.36	.36	.36	.36
Sept. 4	.60	.82	.91	1.24	1.44	1.60	1.65	1.65	1.65	1.66	1.66
Oct. 10	.13	.23	.40	.48	.56	.65	.66	.78	.81	.83	.86
Oct. 27	.30	.42	.66	1.03	1.10	1.14	1.20	1.24	1.25	1.25	1.27
Cleveland, Ohio:											
June 7	.21	.35	.47	.47	.48	.48	.48	.48	.48	.48	.48
Sandusky, Ohio:											
June 8	.31	.45	.51	.57	.66	.70	.75	.86	.88	.92	.95
June 15	.28	.36	.40	.42	.43	.43	.43	.43	.43	.43	.43
July 4	.32	.59	.91	1.10	1.24	1.28	1.29	1.29	1.29	1.29	1.29
July 28	.33	.61	.85	.89	.93	1.04	1.05	1.05	1.05	1.05	1.06
July 30	.20	.34	.48	.56	.66	.72	.83	.87	.89	.93	.98
Aug. 8	.18	.35	.46	.63	.67	.68	.70	.90	.92	.95	.95
Aug. 13	.52	.64	.71	.71	.71	.71	.71	.71	.71	.71	.71
Sept. 4	.40	.70	1.10	1.18	1.31	1.34	1.34	1.34	1.34	1.34	1.34
Toledo, Ohio:											
June 3	.26	.52	.57	.62	.63	.65	.65	.65	.65	.65	.65
June 10	.24	.30	.36	.38	.40	.41	.44	.45	.47	.52	.55
June 22	.21	.37	.49	.53	.54	.56	.57	.58	.59	.60	.60
June 30	.16	.30	.41	.51	.53	.53	.53	.53	.53	.53	.54
Oct. 25	.26	.35	.43	.46	.50	.52	.53	.54	.55	.55	.56
Fort Wayne, Ind.:											
May 21	.21	.33	.42	.43	.55	.60	.61	.61	.61	.61	.62
June 10	.23	.40	.46	.49	.53	.54	.57	.58	.58	.58	.58
June 21	.32	.41	.42	.42	.43	.43	.51	.51	.51	.53	.54
July 22	.20	.37	.51	.57	.67	.79	.79	.80	.82	.82	.83
Aug. 7	.22	.33	.40	.43	.51	.52	.52	.53	.53	.53	.55
Oct. 26	.22	.36	.47	.53	.58	.62	.63	.69	.75	.82	.83
Detroit, Mich.:											
June 7	.51	.82	.99	1.13	1.27	1.29	1.29	1.29	1.29	1.29	1.42
June 22	.26	.26	.26	.26	.26	.26	.26	.26	.26	.28	.39
July 8	.37	.50	.57	.65	.67	.67	.68	.70	.71	.71	.71
July 28	.31	.55	.84	.92	.94	.94	.94	.94	.94	.94	.94
Aug. 8	.34	.61	.75	.77	.78	.79	.85	.90	.92	.92	.92
Sept. 4	.33	.45	.64	.67	.69	.70	.72	.73	.73	.73	.73
UPPER LAKE REGION											
Alpena, Mich.:											
May 8	.14	.27	.37	.54	.60	.63	.64	.64	.64	.69	.74
June 30	.64	1.10	1.13	1.14	1.14	1.23	1.34	1.51	1.52	1.52	1.52
July 9	.19	.39	.50	.50	.50	.50	.50	.50	.50	.50	.50
Aug. 29	.21	.37	.53	.59	.62	.63	.64	.64	.67	.70	.70
Escanaba, Mich.:											
May 21	.18	.27	.48	.59	.68	.71	.74	.75	.75	.77	.77
Aug. 2	.24	.34	.37	.37	.37	.37	.37	.37	.37	.37	.39
Sept. 3	.20	.36	.62	.69	.71	.72	.77	.82	.85	.86	.88
Grand Rapids, Mich.:											
Apr. 18	.13	.20	.37	.53	.69	.78	.89	.96	1.00	1.02	1.03
June 7	.42	.64	.92	1.01	1.20	1.33	1.50	1.55	1.59	1.71	1.77
June 10	.17	.27	.47	.58	.67	.74	.81	.84	.89	.94	.97
June 19	.30	.52	.82	.88	1.01	1.06	1.10	1.11	1.13	1.14	1.15
June 28	.51	.82	1.26	1.55	1.77	1.84	1.87	1.87	1.87	1.87	1.87
Aug. 2	.22	.39	.46	.47	.47	.47	.47	.47	.60	.62	.63
Aug. 19	.21	.34	.52	.69	.95	1.26	1.65	1.89	1.98	2.33	2.67
Lansing, Mich.:											
June 7	.23	.31	.32	.34	.37	.39	.43	.48	.50	.57	.58
June 10	.27	.46	.53	.63	.66	.74	.78	.82	.83	.84	.93
July 4	.32	.47	.51	.52	.57	.61	.66	.90	1.10	1.18	1.22
Oct. 9	.16	.30	.56	.68	.74	.78	.81	1.01	1.11	1.21	1.23
Marquette, Mich.:											
June 7	.37	.65	.89	1.11	1.21	1.24	1.25	1.28	1.31	1.31	1.31
July 3	.20	.38	.50	.53	.53	.53	.53	.53	.53	.53	.53
Sept. 3	.59	.93	1.39	1.41	1.41	1.43	1.43	1.43	1.43	1.43	1.43
Sault Ste. Marie, Mich.:											
June 7	.18	.30	.38	.54	.61	.61	.62	.68	.68	.69	.82
June 11	.26	.32	.37	.47	.50	.51	.52	.52	.52	.53	.53
Chicago, Ill.:											
May 27	.37	.64	.78	.85	1.15	1.28	1.34	1.39	1.74	1.79	1.80
June 10	.17	.32	.52	.61	.66	.78	.85	.88	.90	.92	.94
June 10	.35	.49	.77	.88	.96	.99	1.00	1.01	1.01	1.01	1.01
July 6	.25	.39	.55	.78	1.14	1.25	1.34	1.36	1.36	1.37	1.37
Aug. 20	.21	.30	.38	.45	.51	.51	.51	.52	.52	.52	.52
Oct. 25	.25	.39	.51	.54	.56	.51	.64	.68	.68	.69	.71

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
UPPER LAKE REGION—continued.											
Green Bay, Wis.:											
May 21	0.30	0.49	0.66	0.94	1.02	1.04	1.06	1.07	1.07	1.08	1.08
June 7	.29	.43	.61	.65	.66	.70	.71	.71	.71	.71	.71
June 7	.35	.48	.59	.61	.62	.62	.62	.62	.62	.62	.62
Milwaukee, Wis.:											
June 7	.39	.50	.81	.94	.98	.99	1.00	1.02	1.03	1.06	1.07
Aug. 8	.34	.58	.69	.74	.90	1.13	1.56	1.66	1.83	1.98	2.11
Aug. 20	.31	.50	.51	.52	.53	.53	.53	.53	.53	.53	.53
Aug. 29	.79	1.11	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14	1.14
Duluth, Minn.:											
June 7	.26	.39	.41	.42	.42	.44	.45	.45	.45	.45	.45
July 23	.35	.50	.65	.76	.89	.94	.98	.99	.99	.99	.99
Aug. 8	.17	.24	.40	.60	.82	.95	1.10	1.39	1.56	1.84	2.02
Aug. 30	.25	.38	.47	.52	.65	.66	.70	.72	.72	.72	.72
NORTH DAKOTA											
Bismarck, N. Dak.:											
June 17–18	.30	.53	.79	1.14	1.30	1.38	1.42	1.46	1.47	1.52	1.70
Devils Lake, N. Dak.:											
May 5	.15	.26	.45	.55	.60	.62	.62	.62	.62	.62	.62
June 21	.27	.41	.57	.60	.65	.65	.66	.66	.67	.73	.74
July 5	.26	.37	.43	.51	.66	.66	.68	.70	.74	.80	.82
Aug. 10	.35	.55	.76	.88	.89	.90	.92	.93	.93	.93	.93
Williston, N. Dak.:											
June 25	.33	.55	.75	.79	.80	.80	.80	.80	.90	.95	.95
July 3	.17	.32	.46	.48	.51	.53	.53	.53	.53	.53	.53
Aug. 15	.21	.32	.50	.55	.58	.59	.61	.62	.63	.65	.65
UPPER MISSISSIPPI VALLEY											
Minneapolis, Minn.:											
May 6	.24	.36	.56	.63	.73	.74	.74	.74	.74	.74	.83
May 25	.25	.43	.68	.77	.80	.81	.84	.85	.86	.86	.86
June 18	.22	.36	.63	.75	.87	.90	.93	.94	.96	.97	.97
July 3	.27	.49	.68	.73	.73	.85	.85	.86	.86	.86	.86
Aug. 8	.12	.22	.41	.45	.53	.59	.64	.75	.86	.96	1.01
Sept. 11	.23	.34	.40	.57	.60	.73	.78	.80	.81	.81	.81
La Crosse, Wis.:											
May 28	.20	.36	.56	.63	.67	.69	.71	.72	.72	.73	.76
Aug. 20	.14	.24	.38	.53	.70	.94	1.06	1.22	1.51	1.78	1.93
Madison, Wis.:											
June 7	.24	.34	.40	.44	.44	.45	.45	.45	.45	.45	.45
Aug. 29	.31	.44	.64	.69	.70	.71	.72	.72	.72	.72	.72
Oct. 27	.36	.38	.41	.43	.46	.47	.48	.49	.49	.49	.49
Davenport, Iowa:											
June 22	.26	.29	.29	.29	.29	.29	.36	.45	.47	.48	.48
July 5	.33	.59	1.02	1.37	1.42	1.43	1.43	1.43	1.43	1.43	1.43
July 17	.64	1.11	1.58	1.63	1.65	1.65	1.65	1.65	1.65	1.65	1.65
Aug. 7	.26	.44	.65	.76	.95	1.08	1.27	1.29	1.29	1.30	1.33
Des Moines, Iowa:											
May 7–8	.36	.67	1.00	1.06	1.14	1.21	1.30	1.36	1.41	1.44	1.48
June 7	.27	.51	.72	.83	.84	.85	.88	.91	.93	.95	.96
June 28	.34	.64	.93	1.07	1.13	1.13	1.13	1.13	1.13	1.13	1.13
July 24	.30	.49	.67	.92	1.13	1.29	1.83	2.05	2.14	2.14	2.14
Aug. 2	.39	.58	.81	.96	1.09	1.11	1.12	1.14	1.17	1.22	1.25
Aug. 10	.29	.49	.79	1.15	1.50	1.76	1.98	2.00	2.03	2.07	2.08
Dubuque, Iowa:											
June 2	.36	.58	.62	.63	.63	.63	.63	.63	.63	.74	.83
June 7	.32	.61	.78	1.01	1.09	1.12	1.12	1.12	1.12	1.14	1.27
June 26	.14	.21	.39	.51	.71	.85	.87	.91	.91	.93	.93
July 5	.20	.36	.39	.39	.40	.40	.40	.40	.40	.40	.40
July 5	.36	.47	.59	.62	.63	.63	.68	.74	.86	.87	.88
July 6	.24	.42	.75	.97	1.21	1.31	1.32	1.33	1.33	1.33	1.33
Aug. 16	.33	.57	.74	.82	1.03	1.34	1.41	1.45	1.45	1.45	1.46
Oct. 25	.57	.85	1.20	1.52	1.90	2.04	2.23	2.42	2.57	2.79	2.85
Keokuk, Iowa:											
Mar. 10	.26	.34	.37	.38	.42	.45	.48	.51	.53	.56	.69
Apr. 25	.24	.31	.38	.41	.46	.76	.82	.83	.83	.95	1.03
May 26	.69	1.04	1.11	1.12	1.16	1.17	1.17	1.18	1.18	1.19	1.19
May 27	.50	.69	.79	.80	.80	.80	.80	.80	.80	.80	.80
May 26–27	.22	.40	.68	.95	1.17	1.51	1.72	1.74	1.82	1.85	2.10
July 4	.29	.47	.58	.63	.78	1.03	1.09	1.14	1.17	1.19	1.21
July 16	.21	.41	.55	.65	.66	.70	.70	.70	.70	.70	.70
Aug. 7–8	.14	.27	.53	.66	.82	.87	.91	.96	.99	1.00	1.01
Aug. 10–11	.22	.41	.57	.62	.70	.72	.72	.73	.74	.76	.86
Aug. 16–17	.28	.48	.62	.64	.64	.64	.67	.70	.73	.74	.75
Oct. 26	.23	.30	.49	.64	.91	.93	1.01	1.03	1.06	1.16	1.26
Oct. 27	.25	.27	.27	.27	.28	.30	.42	.43	.43	.46	.46
Cairo, Ill.:											
Mar. 4	.19	.22	.34	.49	.70	.93	1.23	1.34	1.40	1.48	1.59
Mar. 5	.27	.32	.32	.32	.32	.32	.32	.32	.32	.32	.32
May 24	.20	.30	.32	.33	.33	.33	.33	.34	.39	.45	.45
May 25	.42	.75	1.34	1.74	1.77	1.78	1.78	1.78	1.79	1.79	1.79
May 26	.26	.31	.34	.35	.36	.36	.36	.36	.36	.36	.36
June 8	.19	.30	.38	.40	.40	.41	.41	.41	.43	.50	.51
June 10	.15	.27	.42	.48	.49	.49	.49	.49	.49	.49	.49
Peoria, Ill.:											
Feb. 9	.18	.34	.39	.39	.41	.44	.54	.62	.79	.88	1.07
May 26	.25	.29	.34	.34	.35	.36	.36	.37	.37	.38	.38

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
UPPER MISSISSIPPI VALLEY—continued											
Peoria, Ill.—Con.											
May 27	0.19	0.33	0.39	0.51	0.66	0.68	0.69	0.70	0.71	0.71	0.71
June 19	.41	.68	.98	1.33	1.53	1.64	1.70	1.75	1.78	1.80	1.83
June 27	.23	.31	.46	.51	.68	.89	.94	.98	1.05	1.06	1.06
July 5	.35	.47	.51	.51	.51	.51	.51	.51	.51	.51	.51
July 6	.33	.40	.71	.78	1.17	1.36	1.63	1.92	2.02	2.54	2.55
July 17	.25	.31	.60	.66	.68	.68	.68	.68	.68	.68	.68
Aug. 22	.36	.38	.41	.45	.48	.50	.51	.51	.51	.51	.51
Oct. 26	.27	.55	.87	1.20	1.61	1.83	2.19	2.31	2.36	2.39	2.44
St. Louis, Mo.:											
Mar. 11	.42	.65	.93	1.09	1.18	1.19	1.20	1.20	1.20	1.20	1.20
Apr. 16	.13	.26	.45	.62	.75	.84	.91	.91	1.04	1.06	1.12
May 7	.37	.42	.42	.43	.47	.71	.73	.74	.74	.74	.74
June 10	.31	.47	.57	.57	.57	.58	.58	.58	.58	.58	.58
Aug. 11	.33	.42	.50	.55	.62	.67	.76	.81	.84	.88	.95
Aug. 17	.35	.51	.61	.65	.72	.76	.81	.84	.86	.90	.92
Aug. 18	.19	.31	.35	.38	.55	.58	.60	.70	.75	.86	.97
Aug. 20	.25	.40	.56	.57	.57	.57	.64	.75	.75	.75	.75
Aug. 25	.48	.82	1.38	2.06	2.62	2.92	3.18	3.27	3.37	3.42	3.45
Springfield, Ill.:											
Mar. 10–11	.52	.59	.67	.77	1.02	1.20	1.23	1.24	1.24	1.25	1.30
Mar. 11	.31	.42	.62	.71	.78	.85	.91	.98	1.05	1.07	1.15
Apr. 15	.23	.30	.42	.53	.66	.74	1.03	1.28	1.44	1.56	1.63
June 10	.20	.29	.43	.56	.78	.85	1.09	1.12	1.15	1.40	1.41
Aug. 6–7	.25	.47	.63	.68	.78	.85	.92	1.07	1.32	1.59	1.75
Aug. 17	.24	.42	.53	.65	.69	.70	.71	.71	.71	.71	.71
Oct. 9	.19	.32	.47	.48	.48	.48	.48	.52	.55	.58	.58
MISSOURI VALLEY											
Columbia, Mo.:											
May 26	.20	.36	.52	.59	.75	.99	1.15	1.26	1.31	1.39	1.44
June 10	.27	.46	.73	.79	.82	.83	.85	.87	.87	.87	.87
June 20	.28	.44	.47	.47	.48	.48	.48	.48	.69	.70	.70
July 25	.22	.31	.40	.43	.56	.57	.59	.60	.61	.62	.63
Aug. 10	.60	.91	1.31	1.50	1.85	1.86	1.90	1.93	1.99	2.84	2.91
Aug. 11	.30	.44	.77	1.00	1.09	1.15	1.19	1.20	1.26	1.28	1.28
Kansas City, Mo.:											
Apr. 15	.31	.55	.75	.87	.97	1.00	1.08	1.19	1.28	1.30	1.34
Apr. 15	.34	.53	.73	.91	1.31	1.41	1.43	1.48	1.49	1.49	1.49
Apr. 15	.23	.38	.44	.77	.86	.87	.87	.87	.88	1.13	1.13
June 2	.28	.46	.53	.56	.56	.56	.56	.56	.56	.56	.56
June 2	.50	.66	.79	.79	.79	.79	.79	.79	.87	.90	.90
June 10	.56	1.00	1.27	1.43	1.54	1.56	1.59	1.64	1.79	1.87	1.87
June 10	.36	.47	.55	.68	.90	.90	.90	.90	.90	.90	.90
June 19	.20	.36	.51	.59	.59	.60	.60	.61	.61	.78	.95
June 20	.43	.71	.95	1.02	1.15	1.21	1.26	1.39	1.45	1.45	1.45
June 21	.20	.37	.50	.57	.58	.58	.58	.58	.58	.58	.58
June 25	.34	.48	.86	1.11	1.40	1.51	1.56	1.59	1.61	1.63	1.72
July 18	.28	.48	.71	.83	.90	.92	.93	.93	.93	.93	.93
Aug. 7	.18	.26	.43	.56	.79	.85	.89	.90	.94	1.16	1.31
St. Joseph, Mo.:											
Mar. 11	.22	.37	.56	.66	.72	1.13	1.28	1.32	1.35	1.41	1.45
Mar. 24	.32	.40	.46	.56	.60	.61	.62	.88	.88	.88	.88
June 10	.36	.52	.55	.60	.66	.73	.81	.82	.84	.84	.84
June 20	.58	1.09	1.28	1.30	1.31	1.32	1.32	1.34	1.34	1.35	1.49
Springfield, Mo.:											
Feb. 9	.23	.32	.38	.43	.50	.55	.58	.63	.74	.84	.96
Apr. 15	.25	.28	.30	.30	.30	.30	.30	.30	.37	.43	.45
May 7	.25	.37	.53	.67	.84	.95	1.02	1.05	1.07	1.22	1.30
May 21	.38	.49	.64	.69	.78	.87	.90	.94	.95	1.00	1.04
June 28	.21	.30	.42	.52	.62	.63	.64	.65	.66	.66	.66
July 23	.17	.29	.46	.56	.59	.61	.62	.65	.68	.71	.74
Aug. 22	.27	.38	.44	.45	.45	.46	.46	.46	.46	.46	.46
Oct. 27	.35	.49	.52	.53	.53	.53	.53	.53	.53	.53	.53
Topeka, Kans.:											
Apr. 15	.28	.42	.69	.79	.99	1.12	1.17	1.18	1.62	1.77	1.80
June 10	.28	.44	.57	.84	.95	.99	1.09	1.11	1.11	1.12	1.13
June 19	.30	.45	.86	.90	.90	.91	.91	.93	.94	.94	.94
June 20	.43	.53	.70	.72	.73	.73	.73	.73	.73	.77	.77
July 18	.31	.54	.69	.69	.70	.70	.70	.70	.70	.70	.70
Aug. 1	.09	.14	.28	.34	.40	.42	.46	.53	.68	.82	.88
Aug. 12	.27	.35	.37	.38	.38	.38	.38	.38	.39	.41	.45
Oct. 8	.25	.26	.27	.27	.27	.31	.33	.37	.40	.40	.40
Lincoln, Nebr.:											
June 1	.22	.33	.36	.36	.37	.38	.38	.38	.38	.38	.64
July 4	.33	.53	.87	1.16	1.19	1.21	1.22	1.22	1.22	1.24	1.25
Omaha, Nebr.:											
May 27	.24	.35	.48	.54	.56	.57	.57	.57	.57	.58	.61
June 2	.23	.35	.58	.69	.76	.86	.94	1.02	1.02	1.02	1.02
June 28	.21	.39	.52	.59	.62	.63	.65	.66	.66	.67	.67
July 3	.51	.72	.73	.73	.73	.73	.73	.73	.73	.73	.73
July 5	.19	.24	.37	.53	.59	.63	.72	.73	.74	.74	.74
July 24–25	.17	.27	.48	.64	.95	1.14	1.25	1.27	1.28	1.33	1.40
Aug. 22	.19	.29	.39	.40	.41	.44	.50	.50	.51	.51	.52
Valentine, Nebr.:											
May 21	.38	.52	.58	.59	.59	.59	.59	.60	.60	.60	.60
May 22–23	.28	.34	.47	.52	.66	.68	.68	.69	.70	.71	.71
June 1	.18	.33	.43	.56	.60	.60	.62	.62	.63	.63	.63
June 15	.31	.39	.47	.48	.66	.86	.87	.89	.89	.89	.89
July 6	.22	.35	.55	.77	.84	.88	.90	.92	.93	.94	.95
Aug. 27	.15	.20	.39	.50	.58	.63	.79	.85	.94	.97	1.00

TABLE 13.—*Maximum precipitation for stated intervals during 1939 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
MISSOURI VALLEY—continued											
Sioux City, Iowa:											
May 6	0.18	0.28	0.41	0.50	0.59	0.64	0.67	0.67	0.71	0.73	0.96
June 14	.26	.31	.35	.37	.37	.37	.37	.37	.37	.37	.45
June 21	.36	.57	.61	.63	.66	.93	1.44	1.15	1.15	1.15	1.15
June 24	.21	.34	.51	.59	.61	.61	.62	.63	.68	.73	.74
July 16	.30	.45	.61	.65	.69	.69	.69	.69	.69	.69	.69
Aug. 1	.13	.18	.23	.40	.47	.59	.65	.68	.71	.76	.80
Huron, S. Dak.:											
May 19–20	.20	.35	.61	.80	.97	.98	.99	1.00	1.00	1.00	1.00
June 16	.42	.69	.95	.97	.99	1.01	1.06	1.06	1.06	1.06	1.07
June 27	.23	.30	.32	.35	.40	.42	.43	.47	.47	.49	.49
NORTHERN SLOPE											
Missoula, Mont.:											
May 16	.20	.35	.56	.67	.73	.76	.77	.81	.82	.84	.88
Sheridan, Wyo.:											
July 2	.39	.91	1.11	1.12	1.16	1.16	1.16	1.16	1.16	1.16	1.16
July 6	.23	.31	.36	.37	.40	.42	.42	.42	.42	.42	.42
Rapid City, S. Dak.:											
June 15	.21	.33	.58	.65	.65	.66	.69	.70	.71	.71	.71
July 1	.32	.43	.51	.51	.51	.51	.51	.51	.51	.54	.61
MIDDLE SLOPE											
Concordia, Kans.:											
Mar. 10	.37	.51	.53	.56	.59	.60	.60	.60	.61	.65	.66
Apr. 14	.23	.43	.53	.61	.66	.68	.68	.68	.68	.68	.68
May 20	.26	.37	.47	.65	1.00	1.07	1.11	1.14	1.15	1.15	1.16
May 22	.27	.42	.79	1.17	1.30	1.38	1.41	1.41	1.41	1.41	1.41
June 12	.35	.39	.41	.41	.42	.42	.42	.42	.42	.42	.46
June 20	.21	.35	.46	.56	.59	.69	.77	.78	.92	.93	.93
Aug. 1	.18	.32	.41	.47	.59	.60	.64	.70	.72	.72	.73
Aug. 15	.19	.35	.50	.59	.66	.69	.72	.73	.74	.74	.75
Dodge City, Kans.:											
May 17	.37	.63	1.02	1.18	1.22	1.23	1.28	1.48	1.50	1.55	1.55
June 1	.24	.42	.64	.95	1.17	1.24	1.25	1.27	1.28	1.28	1.29
Wichita, Kans.:											
May 7	.56	.86	1.17	1.20	1.21	1.27	1.33	1.47	1.51	1.59	1.65
June 8	.22	.37	.66	.70	1.01	1.05	1.05	1.06	1.06	1.06	1.06
June 9	.21	.38	.57	.87	1.01	1.06	1.24	1.28	1.29	1.29	1.29
June 14	.44	.71	1.04	1.30	1.62	2.15	2.52	2.83	2.88	2.90	2.90
June 25–26	.14	.21	.36	.52	.76	.94	1.01	1.09	1.29	1.53	1.75
Aug. 7	.26	.43	.55	.59	.72	.75	1.80	.86	.89	.93	1.01
Aug. 14	.28	.35	.50	.67	.72	.76	.79	1.02	1.23	1.26	1.26
Aug. 15	.39	.63	.99	1.44	1.99	2.47	2.63	2.72	2.72	2.81	2.82
Oct. 8	.16	.26	.52	.61	.62	.62	.62	.62	.62	.63	.64
Oklahoma City, Okla.:											
June 11	.44	.74	.95	1.02	1.06	1.10	1.18	1.23	1.28	1.38	1.50
June 27–28	.31	.47	.74	.88	1.30	1.43	1.53	1.59	1.61	1.77	1.93
Aug. 7	.30	.56	.83	.94	1.20	1.53	1.66	1.79	1.84	1.93	1.97
Aug. 22	.36	.69	1.30	1.64	1.72	1.73	1.73	1.73	1.73	1.73	1.73
SOUTHERN SLOPE											
Abilene, Tex.:											
May 27–28	.53	.90	1.18	1.48	1.71	1.77	1.80	1.84	1.88	1.95	2.07
June 18–19	.26	.45	.74	.92	1.19	1.42	1.42	1.42	1.43	1.43	1.44
Oct. 9	.40	.62	.90	.91	.93	.97	.99	1.01	1.01	1.01	1.01
Amarillo, Tex.:											
June 28	.29	.43	.85	1.07	1.15	1.17	1.18	1.22	1.28	1.35	1.42
Aug. 10	.27	.36	.54	.89	1.08	1.15	1.54	1.58	1.61	1.62	1.65
Del Rio, Tex.:											
May 4	.48	.60	.62	.64	.64	.64	.64	.64	.64	.64	.64
Aug. 4	.41	.78	1.48	1.75	1.92	2.06	2.09	2.10	2.11	2.11	2.12
Roswell, N. Mex.:											
June 27	.28	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
July 14	.30	.39	.51	.52	.52	.52	.52	.52	.52	.52	.52
July 18	.19	.33	.60	.81	1.09	1.17	1.26	1.26	1.27	1.27	1.28
SOUTHERN SLOPE—continued											
Roswell, N. Mex.—Continued.											
July 25	0.16	0.26	0.30	0.54	0.62	0.81	1.02	1.16	1.20	1.21	1.24
July 30	.17	.32	.47	.55	.59	.64	.70	.72	.74	.77	.81
Aug. 10	.16	.26	.34	.47	.55	.60	.66	.80	.81	.81	.81
SOUTHERN PLATEAU											
Albuquerque, N. Mex.:											
July 28	.18	.32	.40	.46	.63	.73	.82	.94	.96	1.02	1.06
Phoenix, Ariz.:											
Sept. 4	.25	.43	.69	.78	.98	1.41	1.64	1.78	2.20	2.36	2.38
Sept. 11	.21	.42	.71	.76	.81	.85	.89	.96	1.01	1.03	1.04
MIDDLE PLATEAU											
Ely, Nev.:											
July 30	.19	.32	.51	.58	.62	.64	.66	.66	.66	.66	.66
Reno, Nev.:											
July 28	.22	.32	.35	.39	.39	.39	.39	.39	.39	.39	.39
NORTH PACIFIC COAST REGION											
Tatoosh Island, Wash.:											
Nov. 10	.23	.36	.52	.57	.62	.66	.72	.77	.83	.92	1.00
Dec. 7	.18	.30	.45	.51	.52	.53	.55	.55	.59	.65	.73
Portland, Oreg.											
June 15	.25	.34	.42	.44	.47	.49	.52	.53	.55	.58	.58
Roseburg, Oreg.:											
June 3	.18	.30	.39	.39	.39	.42	.49	.51	.52	.54	.66
Dec. 10	.08	.13	.18	.26	.36	.43	.52	.58	.64	.73	.84
MIDDLE PACIFIC COAST REGION											
Redding, Calif.:											
May 10	.20	.31	.39	.42	.43	.44	.44	.44	.44	.44	.44
July 4	.40	.60	.80	.85	.92	.92	.94	.94	.94	.95	.95
SOUTH PACIFIC COAST REGION											
Fresno, Calif.:											
June 14	.43	.65	1.03	1.22	1.31	1.36	1.37	1.39	1.44	1.53	1.62
San Diego, Calif.:											
Oct. 7	.15	.27	.40	.41	.44	.52	.54	.56	.56	.57	.57
Nov. 27–28	.25	.47	.68	.72	.74	.75	.75	.75	.75	.76	.81
ISLAND POSSESSIONS											
San Juan, P. R.:											
May 24	.29	.49	.69	.71	.72	.72	.75	.93	1.17	1.19	1.19
July 20	.40	.49	.56	.56	.56	.56	.56	.58	.59	.59	.59
Oct. 26	.31	.51	.60	.81	.94	.95	.98	1.00	1.01	1.02	1.03
Honolulu, T. H.:											
Jan. 16	.14	.25	.39	.52	.60	.66	.69	.72	.72	.72	.72
Feb. 28	.20	.32	.52	.56	.58	.58	.59	.59	.59	.59	.60
Feb. 28	.23	.36	.38	.39	.40	.40	.41	.41	.46	.48	.48
Apr. 3	.17	.32	.57	.73	.90	.94	.97	.98	1.02	1.10	1.15
Apr. 4	.33	.55	.82	.91	.94	.99	1.01	1.04	1.09	1.17	1.35
Oct. 22	.20	.31	.46	.59	.70	.92	.66	1.28	1.48	1.89	2.20
Oct. 22	.17	.25	.42	.66	.84	1.05	1.12	1.28	1.31	1.31	1.31
ALASKA											
Fairbanks, Alaska:											
June 17	.35	.41	.42	.42	.42	.42	.42	.49	.49	.49	.49
July 13	.22	.28	.51	.70	.95	.99	1.02	1.04	1.06	1.08	1.09

NOTE.—The following stations had no excessive precipitation during the year 1939: the Middle Atlantic States, Binghamton, N. Y.; North Dakota, Moorhead, Minn.; upper Mississippi Valley, Charles City, Iowa; northern slope, Billings, Havre, Helena, Kalispell, and Miles City in Mont., Cheyenne, Lander and Yellowstone Park in Wyo., and North Platte, Nebr.; middle slope, Denver and Pueblo in Colo.; southern plateau, El Paso, Tex. and Santa Fe, N. Mex.; middle plateau, Grand Junction, Colo., Modena, and Salt Lake City in Utah and Winnemucca, Nev.; northern plateau Boise and Pocatello in Idaho, Baker, Oreg., and Spokane, Walla Walla, and Yakima in Washington; north Pacific coast region, North Head, Seattle, and Tacoma in Washington; middle Pacific coast region, Eureka, Sacramento, and San Francisco in California; south Pacific coast region, Los Angeles, Calif., and in Alaska, Juneau.

MONTHLY AND ANNUAL EVAPORATION, 1939

The monthly and annual amounts of evaporation during the year 1939 appear in table 14 below. The number of these reports at the present time is small, records appearing from less than half of the States.

The evaporation measurements are all made from cylindrical pans, 4 feet in diameter, 10 inches deep, placed on framework laid on the ground, and exposed as far as possible to full sunshine. A description of equipment and methods of observation appeared in the MONTHLY WEATHER REVIEW of December 1916, pages 674 to 677.

TABLE 14.—*Monthly and annual evaporation, in inches, at class A stations for 1939*

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
ALABAMA													
Fairhope	2.22	2.36	3.81	5.10	5.33	5.17	5.84	5.64	4.36	3.76	2.35	1.87	47.81
ALASKA													
Matanuska						4.27		2.45	1.56				
ARIZONA													
Mesa	2.87	3.46	6.41	8.80	11.44	11.84	12.38	10.36	7.28	6.42	3.90	2.47	87.63
Roosevelt	1.65	2.11	4.79	8.46	12.09	15.25	15.35	11.41	8.56	6.44	2.72	1.92	91.25
University of Arizona (Tucson)	3.13	3.06	6.48	8.75	10.79	13.18	12.19	10.24	8.41	7.15	4.21	2.48	90.07
Yuma (citrus)	3.67	4.57	7.42	10.96	13.92	15.00	15.80	14.32	9.38	8.71	4.60	4.80	113.15
Yuma (valley)	3.87	4.78	7.66	10.40	13.43	13.66	15.05	13.68	8.43	8.04	4.02	3.83	106.85
ARKANSAS													
Hope	3.53	3.64	4.79	6.88	7.19	8.25	9.68	8.81	7.65	5.41	2.67	2.21	70.71
Irons Fork Experiment Station [1]	1.37	1.39	3.27	4.50	4.71	4.42	6.21	5.65	5.70	3.10	1.20	1.47	42.99
Russellville	2.36	2.18	4.00	5.37	5.65	7.01	9.09	7.41	7.98	5.09	2.13	2.05	60.32
Stuttgart	1.61	1.60	3.52	4.61	4.95	5.85	7.29	6.36	5.92	3.83	1.92	1.35	48.81
CALIFORNIA													
Alvarado (near)	1.48	2.87	3.14	5.15	6.86	7.69	7.77	6.87	5.75	3.93	1.81	1.26	54.58
Chula Vista	3.02	3.75	4.15	5.50	6.96	7.42	7.98	7.04	6.02	5.41	3.13	2.50	62.88
Davis	1.55	3.29	3.85	7.66	9.23	11.34	11.53	10.27	7.58	5.18	2.70	1.36	75.54
Fall River Mills	0.80		3.91	6.89	8.07	10.23	12.78	11.72	6.77	3.64	1.52	0.67	
Lodi	0.97	2.79	3.22	7.26	9.64	12.72	13.16	11.79	8.62	4.70	2.51	1.23	78.61
Mojave (Backus Ranch)	2.64	4.59	5.26	10.20	13.95	18.30	21.51	22.04	10.65	17.38	4.05	3.42	133.99
Oakdale	0.68	2.40	2.72	5.53	9.09	12.36	13.87	12.75	8.81	4.16	2.72	1.11	76.20
Tahoe					3.82	4.21	5.13	5.45	3.08	1.43			
FLORIDA													
Hiawassa [2]									5.73	4.78	3.81	3.19	
GEORGIA													
Experiment				6.27	5.88	6.32	7.82	5.85	5.47	4.67	2.60	2.56	
Tifton	3.03				6.92	7.00	6.35	5.50	5.71	4.38	2.70	2.58	
HAWAII													
Pahala	5.08	4.12	4.61	4.20	6.30	5.16	6.42	6.35	5.58	4.90	4.13	4.12	60.97
Waianae [3]					7.87	6.17	8.36	8.13	7.51	5.45	4.43	3.67	
IDAHO													
Aberdeen				6.22	8.01	8.16	9.01	7.60	4.96	3.31			
Arrowrock					8.36	8.86	11.18	11.31	6.33	2.43			
Lifton				4.86	7.03	8.07	9.78	8.73	5.21	3.22			
Milner Dam				6.16	8.50	8.82	10.20	10.44	6.28	3.22	1.87		
Moscow [4]						5.32	8.12	7.72	5.21	2.49			
INDIANA													
Indianapolis						6.57	7.16	5.72	6.26				
IOWA													
Ames				5.03	9.92	7.23	9.57	7.22	9.23	4.49	2.18	2.07	
Cherokee				5.42	9.06	7.20	9.24	6.84	8.76	4.29	2.11	1.94	
Clarinda				6.60	9.77	8.95	8.92	6.66	10.82	6.79			
Iowa City			3.18	4.77	7.44	6.68	7.15	5.50	6.16	4.19	1.78		
KANSAS													
Hays				8.95	14.31	16.86	20.58	14.39	16.74	9.90			
Manhattan (Agronomy Farm)				6.65	10.33	10.85	14.01	8.48	12.52	8.07			
Tribune				6.07	9.93	12.01	14.31	12.14	11.64				
KENTUCKY													
Eadsville (Lock 21, Cumberland River)		2.20	3.18	3.84	5.23	5.72	6.30	5.17	4.42	3.06	1.01	1.10	
LOUISIANA													
Hackberry (Near) [5]				8.18	9.58	8.18	9.25	7.94	8.01	6.19	3.33	2.76	
MICHIGAN													
Germfask [6]						6.48	8.01	5.18	3.54	2.37			
MISSISSIPPI													
Vicksburg [7]					5.24	6.29	7.43	7.01	5.57	4.22	2.11	1.47	
MISSOURI													
Columbia				3.43	4.62	4.81	6.73	4.81	6.14				
Lakeside	1.90	1.96	3.31	5.20	6.64	7.92	9.47	7.82	8.10	4.87	1.61	1.96	60.76
Washington University (St. Louis)		1.23	3.36	3.79	6.14	5.53	7.17	5.79	6.18	3.50	1.45	1.51	

[1] Station opened Oct. 1, 1937.
[2] Station opened Aug. 16, 1939.
[3] Station opened May 6, 1939.
[4] Station opened June 1, 1939.
[5] Station opened Apr. 1, 1939.
[6] Station opened May 2, 1939.
[7] Station opened May 4, 1939.

TABLE 14.—*Monthly and annual evaporation, in inches, at class A stations for 1939*—Continued

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
MONTANA													
Agriculture College (Bozeman)				4.10	6.85	5.47	8.47	7.93	4.97	2.96			
Fort Peck					5.02	7.22	5.98	10.67	9.11	2.57			
Malta					8.29	5.35	8.78	7.69	5.38	3.88			
Sherburne Lake					7.57	6.12	9.98	8.55	7.24				
Valier					7.56	4.42	9.66	10.45	9.04				
NEBRASKA													
Bridgeport				4.98	7.25		9.32	8.02	6.42	3.67			
Keystone Dam [8]				5.57	9.88	10.41	13.04	10.96	9.16	5.35			
Lincoln				6.43	9.44	8.73	10.72	8.82	9.86	5.41			
NEVADA													
Boulder City	3.43	4.02	7.37	10.93	14.98	19.01	18.39	14.18	8.53	8.23	3.67	3.47	116.21
Lamoille				5.13	6.80	9.44	10.95	10.86	7.36	3.97	3.08		
NEW JERSEY													
Canoe Brook [9]						5.14	5.47	4.12	3.06	1.68			
Pleasantville [10]			2.39	3.61	6.25	5.92	6.51	6.12	4.25	2.51	2.28		
Runyon [11]						6.38	6.76	5.43	3.79	2.41			
NEW MEXICO													
Agricultural College	3.67	4.80	8.13	10.07	12.04	14.06	11.22	10.30	9.06	6.06	3.26	2.92	95.59
Alamogordo Dam [12]	4.18	3.62	7.57	10.60	12.30	16.10	13.56	12.72	10.26	8.19	3.33	3.33	105.76
Conchas Dam	2.98	3.40	7.32	10.57	12.22	17.02	13.74	11.44	11.12	8.99	3.54	3.36	105.70
Elephant Butte Dam	3.51	4.28	8.53	11.35	15.19	17.68	13.22	12.81	10.28	7.80	3.77	3.26	111.68
El Vado Dam				6.59	10.00	14.14	10.69	8.24	5.93	5.07	2.35		
Florida	5.00		6.66	6.77									
Jornada (Las Cruces Station)	2.96	3.71	7.30	11.32	14.03	16.60	12.48	10.77	9.68	5.86	3.12	2.66	100.49
Navajo Experiment Station				11.76	12.69	16.30	14.52	11.34	7.70	7.48	4.55		
Portales	4.15	2.71		7.14	8.80	12.81	11.52	9.53	11.46	7.10	3.27	4.00	
Therma (Eagle's Nest)					7.62	10.46	8.30	5.96	5.22	4.82			
NEW YORK													
Albany (Voorheesville)					5.98	6.31	6.83	5.80	3.81	2.15			
Ithaca					5.48	5.31	7.40	6.82	4.77	2.20			
NORTH CAROLINA													
Chapel Hill	1.07	1.57	3.10	3.90	4.14	4.80	3.64	3.91	2.81	1.61	.72	.70	31.97
OHIO													
Dayton				3.10	6.58	5.83	6.32	6.32	5.90	3.36			
Ohio State University				2.94	5.26	4.33	5.02	5.05	5.26	3.45			
Wooster					5.74	5.24	6.55	7.83	5.39				
OKLAHOMA													
Tipton	2.58		7.21	9.14	10.45	14.29	17.17	11.11	12.89	8.95	2.32		
University of Oklahoma (Norman)			5.77	7.13	8.57	8.49	10.66	9.25	9.99	6.84	2.42		
OREGON													
Corvallis				3.40	4.48	4.64	7.54	6.34	4.76				
Medford	.64	.90	3.26	5.10	6.02	7.74	9.78	8.59	5.14	1.90	.99	.69	50.75
Warmspring Reservoir				6.51	8.96	9.27	12.36	11.38	7.14				
PENNSYLVANIA													
Wallenpaupack Dam					6.56	6.77							
PUERTO RICO													
San Juan	6.42	6.71	8.94	8.41	8.43	7.93	8.67	7.33	7.20	7.24	5.63	5.59	88.50
TENNESSEE													
Lock A, Neptune	1.60	2.10	3.80	4.67	5.13	5.94	6.65	5.64	6.36	3.93	1.44	1.48	48.74
TEXAS													
Austin	2.55	3.07	5.20	7.15	7.89	8.39	9.92	8.35	7.64	5.68	2.45	2.56	70.85
Dilley	2.50	3.82	6.30	9.04	8.71	9.70	12.04	9.51	8.79	6.52	3.50	3.10	83.53
Ysleta [13]		4.40	8.18	10.83	13.43	14.86	13.02	10.87	9.34	6.19	3.14	2.87	
UTAH													
Bear River Game Refuge				6.60	9.67	10.60	12.87	10.71	6.74	4.00			
Myton				2.52	8.44	10.87	11.59	9.38	5.45	3.90			
Piute Dam					9.83	12.74	12.81	9.25	6.44	4.67	2.36		
Utah Lake				7.24	9.42	9.87	12.06	9.47	6.12	3.74	1.90		
VIRGIN ISLANDS													
St. Croix	4.32	5.01	5.98	7.80	7.30							6.19	
WASHINGTON													
Kachess Lake					3.94	4.62	6.92	6.61	3.37	1.35			
Walla Walla			2.45	5.19	7.08	7.89	11.17	10.79	6.36	2.84			
Wind River				3.27	4.96	4.58	6.34	5.78	3.86	1.31			
WEST VIRGINIA													
Clarksburg				3.49	5.62	5.04	5.12	5.31	3.92	2.41			
Wardensville [14]								6.08	4.95	3.21			
WISCONSIN													
Marshfield [15]						5.76	7.52	5.68	5.04				

[8] Station opened Sept. 1, 1939.
[9] Station opened Nov. 25, 1930.
[10] Station opened Jan. 1, 1924.
[11] Station opened Sept. 11, 1923.
[12] Station opened Jan. 1, 1939.
[13] Station opened Jan. 24, 1939.
[14] Station opened July 27, 1939.
[15] Station opened June 1, 1939.

ANNUAL METEOROLOGICAL SUMMARIES, 1939

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR 190 STATIONS FOR 1939

EXPLANATION OF THE TABLES

For a detailed account of the method of reducing the observed barometric pressures the reader is referred to the report on the barometry of the United States, Canada, and the West Indies, to be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, volume II.[1]

Attention is called to the fact that the pattern of the Annual Meteorological Summary Tables has in many respects been modified and differs from the fixed arrangement adhered to in years past. This change largely came about to make available to investigators additional information accrued by increasing the number of daily observations from two or three to a uniform system of observations at 6-hour intervals, 1:30 and 7:30 a. m. and p. m., seventy-fifth meridian time.

Pressure.—Two mercurial barometers of the well-known Fortin cistern pattern, or a modified form thereof, are furnished each station. One of these, the station barometer, is used in making all regular observations; the other, the extra, is held in reserve for use in case of emergency, except that monthly comparative readings are made on the two instruments for purpose of check upon the deterioration of either instrument.

Each barometer, before issue to station, is compared with the substandard at Washington, and a certificate-of-correction card furnished showing the several constant corrections that must be applied to the readings of the instrument in order to derive therefrom the actual pressure of the air in standard units at a specified elevation. Each observation as made, therefore, is corrected by the application of the following:

(1) Correction of scale error, capillarity, etc.

(2) Correction to standard gravity, comprising both latitude and altitude terms.

(3) Correction for removal—a correction applied if any change has been made in the elevation of the barometer, to reduce the readings to the elevation adopted in 1900. (However, at a very few stations the elevation of 1900, or the original elevation of a station opened since 1900, has been replaced as the "station elevation" by an actual elevation since established.)

Corrections 1, 2, and 3 are constant for any one station and are combined in a single sum.

(4) Correction for the temperature of the scale and mercurial column: In the pressure columns of this part the values presented are those at the station elevations of the barometer cisterns, which are at various heights above the ground level, but usually less than 100 feet. On the other hand, daily weather maps and most other pressure data issued by the Bureau indicate sea-level pressures.

The monthly mean pressures given in the summary are deducted from the corrected observations of pressure at 7:30 a. m. and 7:30 p. m., seventy-fifth meridian time, by taking the mean thereof and applying thereto a correction to reduce to the mean of 24-hourly observations. At several Alaska stations and at Honolulu the mean is printed uncorrected. The extremes are determined, wherever possible, from the barograph trace.

Temperature.—The temperature of the air at 1:30 and 7:30 a. m. and p. m., seventy-fifth meridian time, is obtained by the use of the whirled drybulb thermometer. The latter is part of the whirled psychrometer and is mounted in the thermometer shelter adopted in 1885.

The maximum temperature is obtained by the use of the Negretti and Zambra mercurial thermometer, having a constriction in the bore of the tube below the scale. The minimum temperature is obtained by the use of the ordinary Rutherford alcohol minimum thermometer. Both instruments are read once or more daily. The extremes given in the summaries are for the civil day, midnight to midnight, normal standard time. The monthly means have been obtained by dividing the sum of the mean maximum and mean minimum temperatures by 2.

Moisture.—The monthly means of the dew point and relative humidity are given as computed directly from the original daily observations.

The rain gages used at the regular Weather Bureau stations have a circular catchment area of about 8 inches diameter, and the snow, hail, or sleet caught within them is melted and measured as water. The rain gage proper is set within an enclosing cylinder, which serves as an overflow attachment in the case of heavy rains and as a snow gage in the winter season.

The sum total of the depth of rain and melted snow is measured to within 0.01 inch at time of daily observations. The total precipitation is determined from the amounts recorded daily, midnight to midnight, standard of time in local use.

The snow caught and retained in the gage is melted and measured as water. No correction is applied for snow that is lost out of the gage by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gage is markedly at fault, an independent ground measurement is made and used as the official record. The loss of both rain and snow caused by high winds, from gages ex-

[1] See Art. entitled "Adjustment of Airport Station Pressure Records to Old City Station Elevation and Tables" pages 33 to 35.

posed on the roofs of tall buildings in which some of the regular stations of the Weather Bureau are located, is undoubtedly larger than is the case at the cooperative stations where the gages are located in the open country and near the ground, but this loss does not appear to be sufficient to make the monthly sums derived from these two classes of stations wholly inconsistent with each other.

By the maximum precipitation in 24 hours is meant the greatest measurement for any 24 consecutive hours; it does not refer to the rate of rainfall for 24 hours, as deduced from short, heavy showers.

The number of days with precipitation amounting to 0.01 and 0.04 inch, respectively, relates to the rainfall from midnight to midnight, standard of time in local use. No record is made of deposits of dew.

The total snowfall column presents the depth as unmelted snow. The month in this instance runs from the last observation of the preceding month to the last observation of the month itself.

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered by clouds from sunrise to sunset is estimated by the observer on a scale of 0–10.

The number of days that were clear, as given under "Number of days, etc.," includes those on which the daylight cloudiness was 0-, 1-, 2-, or 3-tenths; the days partly cloudy were those on which the daylight cloudiness was 4-, 5-, 6-, or 7-tenths; the cloudy days were those having 8-, 9-, or 10-tenths of cloudiness during daylight.

Wind.—The direction and velocity of the wind are recorded at nearly all the stations on what is known as the "triple register." On these instruments the direction of the wind is recorded every minute. The maximum velocities given are for 5-minute periods.

Beginning with January 1, 1932, the Weather Bureau began the practice of applying corrections to all records of wind velocity obtained from rotating cup anemometers. Correction tables for both three-cup and four-cup anemometers having been made available to stations and hence values furnished to the public are on a comparable basis, regardless of the particular instrument employed.

Number of days.—The number of days with hail includes all of those on which at least a trace of hail fell.

The number of days with light, moderate, thick, and dense fog includes all of those on which fog occurred according to the following classifications: Light fog, horizontal range of visibility is not less than $\frac{5}{8}$ mile, (3,300 ft.); moderate fog, horizontal, range of visibility lies within the limits, $\frac{5}{16}$ mile (1,650 ft.) to (but not including) $\frac{5}{8}$ mile; thick fog, horizontal visibility lies within the limits, $\frac{1}{5}$ mile (1,000 ft.) to (but not including) $\frac{5}{16}$ mile (1,650 ft.), and dense fog, horizontal visibility is reduced to less than $\frac{1}{5}$ mile (1,000 ft.).

Time.—In this part the time indicated is seventy-fifth meridian time, except in a few instances where footnotes specify otherwise.

References and abbreviations.—H, official elevation of station=height of the ground above sea level at station; H_b=height of barometer cistern above mean sea level on January 1, 1900, or when the station was established, if it was established since January 1, 1900, that being the elevation to which all previous readings have been reduced. It is designated as the "station, or adopted elevation." At almost all stations where a change has been made in the elevation of the barometer since January 1, 1900, a corresponding correction has been applied to the observed reading, thereby reducing all values to the "station, or adopted elevation." The actual elevation and the station, or adopted elevation, are identical, except at stations where the barometer has been moved since January 1, 1900; h_t=height of thermometer above ground; h_r=height of rain gage (top) above ground; h_a=height of anemometer (cups) above ground.

ADJUSTMENT OF AIRPORT STATION PRESSURE RECORDS TO OLD CITY STATION ELEVATION[1]

In the installation of mercurial barometers at the airports, the tables for reduction of station pressure to sea level were based in most cases on a station elevation corresponding exactly, or very nearly, to the elevation of the ivory point of the barometer, or to the level 8 feet above the landing field. In only a relatively few cases was the adopted station elevation made to coincide with the station elevation at the city office.

At city offices established prior to 1900, the practice has been followed since the beginning of that year of maintaining a single "station elevation" by applying a "removal correction" whenever the barometer was moved to a different elevation from that existing on January 1, 1900, so that the "station pressures" pertained to the actual elevation as of that date. Thus the adopted "station elevation" corresponded to the actual elevation of the ivory point of the barometer at the beginning of the current century. At city offices established subsequent to January 1, 1900, the adopted "station elevation" was almost invariably the actual elevation of the barom-

[1] Prepared by W. W. Reed.

eter when the station was first established. Under this system, records of "station pressure" at city offices have been directly comparable since the dates in question by virtue of the fact the data were pertinent to a single "station elevation."

However, where city offices were closed or consolidated with the airport stations, the changes in elevation were so considerable in many cases that it was inadvisable to attempt the employment of a "removal correction" and the airport "station elevations" were maintained.

Beginning with July 1939, and prior thereto at several stations, the records of pressure at most of the airports were made official for synoptic purposes and published in the MONTHLY WEATHER REVIEW. Similar airport data for a small number of stations were published in the Report of the Chief of the Weather Bureau, 1934–35 and in the United States Meteorological Yearbooks—1936 to 1938, inclusive. This procedure introduced into the homogeneity of pressure records breaks that range in value from a few thousandths of an inch, insignificant for practical purposes, to more than 0.50 inch locally in winter. In view of the need for homogeneity in respect to elevation in the study of pressure trends, action has been taken to prepare adjustments for the airport station pressures to reduce them to the old city office station elevation. However, separate records of "station pressure" pertinent to the originally adopted airport "station elevation" are still maintained.

The following table gives airport pressure readings corrected so as to represent the mean monthly, the maximum and the minimum station pressures for the old city office station elevation covering the interval of time during which airport station pressures were published in lieu of the old city office station pressures. In printing the data the first figure of the whole number of inches has been omitted and only the last figures and the decimal are shown. The first figure of the whole number is three for zero in the tens place and two in all other cases. Even with these adjustments applied, future data will not be strictly comparable with the 1900–1939–40 series, but the divergences will, in general, be small.

TABLE 15.—*Station pressures at airport adjusted to the old city office elevation*

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Albany, N. Y. (292 to 97 ft.)													
1938:													
Mean						9.86	9.84	9.85	9.90	9.99	0.02	9.95	9.92
Maximum						0.27	0.00	0.05	0.29	0.38	0.51	0.55	0.74
Minimum						9.53	9.54	9.49	8.58	9.45	9.40	9.24	8.58
Atlanta, Ga. (976 to 1,178 ft.)													
1934:													
Mean												8.90	8.85
Maximum												9.21	9.42
Minimum												8.44	8.35
1935:													
Mean	8.90	8.86	8.86	8.70	8.79	8.78	8.80	8.78	8.80	8.94	8.86	8.87	8.83
Maximum	9.25	9.31	9.21	8.92	9.00	8.90	9.07	8.92	9.05	9.26	9.27	9.26	9.31
Minimum	8.45	8.44	8.19	8.42	8.49	8.50	8.52	8.58	8.44	8.56	8.52	8.42	8.19
1936:													
Mean	8.79	8.83	8.69	8.83	8.83	8.72	8.77	8.83	8.83	8.85	8.91	8.93	8.82
Maximum	9.24	9.17	8.97	9.13	9.20	9.02	8.96	9.02	9.02	9.12	9.22	9.36	9.36
Minimum	7.96	8.25	8.24	8.33	8.43	8.52	8.55	8.61	8.59	8.52	8.57	8.56	7.96
1937:													
Mean	8.92	8.81	8.78	8.74	8.78	8.76	8.81	8.84	8.82	8.81	8.87	8.92	8.82
Maximum	9.21	9.23	9.20	9.18	8.96	8.96	9.02	9.07	9.15	9.18	9.38	9.25	9.38
Minimum	8.59	8.36	8.40	8.43	8.56	8.45	8.64	8.70	8.53	8.47	8.43	8.46	8.36
1938:													
Mean	8.83	8.96	8.82	8.84	8.76	8.82	8.80	8.85	8.81	8.87	8.91	8.87	8.84
Maximum	9.25	9.34	9.18	9.14	8.98	9.03	8.92	9.03	9.00	9.16	9.24	9.28	9.34
Minimum	8.26	8.45	8.53	8.40	8.52	8.66	8.62	8.67	8.54	8.54	8.56	8.46	8.26
Boston, Mass. (29 to 124 ft.)													
1936:													
Mean	9.77	9.90	9.78	9.85	9.85	9.77	9.73	9.87	9.96	9.93	9.86	0.09	9.86
Maximum	0.36	0.35	0.28	0.30	0.50	0.20	0.16	0.18	0.36	0.49	0.53	0.66	0.66
Minimum	8.95	9.19	8.92	9.24	9.31	9.29	9.33	9.54	9.47	9.06	9.14	9.21	8.92
1937:													
Mean	0.11	9.79	9.70	9.87	9.80	9.77	9.82	9.92	9.90	9.90	9.88	9.93	9.87
Maximum	0.73	0.24	0.25	0.44	0.25	0.21	0.04	0.17	0.40	0.53	0.40	0.46	0.73
Minimum	9.43	8.97	9.06	9.36	9.52	9.30	9.40	9.64	9.34	9.25	9.16	8.99	8.97
1938:													
Mean	9.90	0.01	9.83	9.88	9.78	9.84	9.83	9.82	9.87	9.94	9.98	9.90	9.88
Maximum	0.25	0.74	0.27	0.36	0.32	0.27	0.01	0.04	0.24	0.32	0.48	0.46	0.74
Minimum	9.17	9.06	9.16	8.93	9.03	9.53	9.58	9.44	8.96	9.28	9.30	9.04	8.93
Cheyenne, Wyo. (6,144 to 6,094 ft.)													
1935:													
Mean									4.10	4.04	3.99	3.97	4.00
Maximum									4.34	4.42	4.28	4.30	4.55
Minimum									3.85	3.58	3.57	3.45	3.32
1936:													
Mean	3.84	3.74	3.84	3.98	4.02	4.04	4.11	4.12	4.06	4.07	4.13	3.90	3.99
Maximum	4.11	4.17	4.20	4.26	4.25	4.31	4.29	4.27	4.34	4.30	4.42	4.21	4.42
Minimum	3.41	3.25	3.40	3.48	3.59	3.58	3.83	3.95	3.73	3.67	3.60	3.44	3.25
1937:													
Mean	3.76	3.84	3.93	3.88	4.00	4.05	4.12	4.12	4.11	4.05	3.99	3.95	3.98
Maximum	4.13	4.18	4.29	4.21	4.32	4.26	4.31	4.29	4.37	4.35	4.34	4.32	4.37
Minimum	3.39	3.14	3.32	3.45	3.64	3.72	3.98	3.94	3.91	3.60	3.64	3.48	3.14
1938:													
Mean	3.93	3.96	3.81	3.94	3.94	4.05	4.13	4.11	4.15	4.07	3.94	3.94	4.00
Maximum	4.24	4.22	4.20	4.33	4.28	4.32	4.32	4.34	4.30	4.28	4.34	4.15	4.34
Minimum	3.59	3.61	3.26	3.48	3.57	3.73	3.93	3.85	3.96	3.68	3.51	3.58	3.26

TABLE 15.—*Station pressures at airport adjusted to the old city office elevation*—Continued

Stations	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Detroit, Mich. (626 to 730 ft.)													
1934:													
Mean	9.26	9.40	9.32	9.15	9.23	9.11	9.18	9.24	9.24	9.27	9.25	9.27	9.24
Maximum	9.74	0.16	9.74	9.60	9.57	9.48	9.55	9.51	9.55	9.62	9.73	9.70	0.16
Minimum	8.49	8.53	8.68	8.60	8.89	8.76	8.91	8.84	8.85	8.87	8.58	8.37	8.37
1935:													
Mean	9.34	9.24	9.20	9.18	9.26	9.13	9.20	9.22	9.25	9.37	9.30	9.26	9.25
Maximum	9.93	9.81	9.80	9.48	9.60	9.47	9.45	9.52	9.54	9.77	9.86	9.77	9.93
Minimum	8.44	8.69	8.68	8.59	8.98	8.69	8.94	8.93	8.80	8.59	8.74	8.85	8.44
1936:													
Mean	9.18	9.24	9.07	9.22	9.27	9.16	9.18	9.22	9.27	9.26	9.26	9.36	9.22
Maximum	9.75	9.63	9.58	9.69	9.78	9.53	9.57	9.58	9.66	9.71	9.88	9.80	9.88
Minimum	8.52	8.23	8.54	8.60	8.71	8.55	8.91	8.94	8.88	8.64	8.64	8.73	8.23
1937:													
Mean	9.34	9.16	9.23	9.15	9.20	9.16	9.19	9.28	9.29	9.22	9.23	9.29	9.23
Maximum	9.90	9.77	9.61	9.60	9.52	9.52	9.37	9.50	9.66	9.80	9.80	9.82	9.90
Minimum	8.63	8.39	8.77	8.57	8.92	8.86	8.84	8.99	8.71	8.50	8.46	8.83	8.39
1938:													
Mean	9.18	9.36	9.13	9.21	9.14	9.21	9.18	9.23	9.23	9.32	9.26	9.22	9.22
Maximum	9.84	9.95	9.55	9.61	9.49	9.50	9.35	9.39	9.55	9.71	9.63	9.77	9.95
Minimum	8.20	8.55	8.65	8.72	8.54	8.91	8.89	8.93	8.74	8.77	8.79	8.66	8.20
Kansas City, Mo. (750 to 963 ft.)													
1934:													
Mean	9.08	9.16	9.08	8.95	8.96	8.85	8.90	8.94	8.95	9.02	8.97	9.08	9.00
Maximum	9.54	9.64	9.61	9.38	9.32	9.11	9.12	9.21	9.33	9.51	9.47	9.55	9.64
Minimum	8.64	8.74	8.48	8.54	8.62	8.62	8.54	8.54	8.69	8.63	8.28	8.66	8.28
1935:													
Mean	9.11	9.11	8.90	8.90	8.93	8.88	8.96	8.94	8.99	9.08	9.07	9.10	9.00
Maximum	9.64	9.61	9.41	9.28	9.38	9.13	9.17	9.18	9.30	9.58	9.42	9.55	9.64
Minimum	8.23	8.41	8.33	8.52	8.39	8.42	8.73	8.66	8.78	8.62	8.41	8.47	8.23
1936:													
Mean	9.02	9.03	8.84	8.99	8.98	8.89	8.91	8.91	8.94	9.02	9.14	9.07	8.98
Maximum	9.68	9.45	9.24	9.37	9.32	9.19	9.33	9.20	9.33	9.54	9.56	9.37	9.68
Minimum	8.46	8.45	8.30	8.47	8.56	8.25	8.66	8.68	8.45	8.60	8.46	8.30	8.25
1937:													
Mean	9.07	9.00	9.05	8.84	8.92	8.91	8.93	8.96	9.01	9.00	9.09	9.10	8.99
Maximum	9.55	9.66	9.40	9.32	9.19	9.24	9.12	9.15	9.35	9.56	9.63	9.43	9.66
Minimum	8.46	8.06	8.18	8.30	8.64	8.55	8.60	8.73	8.71	8.48	8.51	8.70	8.06
1938:													
Mean	9.01	9.10	8.83	8.93	8.85	8.96	8.93	8.95	8.99	9.03	8.99	9.02	8.97
Maximum	9.60	9.50	9.30	9.34	9.21	9.27	9.09	9.17	9.28	9.29	9.49	9.54	9.60
Minimum	8.42	8.69	8.33	8.54	8.18	8.54	8.67	8.72	8.67	8.52	8.42	8.59	8.18
Minneapolis, Minn. (838 to 919 ft.)													
1938:													
Mean	------	------	------	8.94	8.88	8.97	8.94	8.96	9.03	9.01	8.97	8.99	8.98
Maximum	------	------	------	9.53	9.20	9.31	9.13	9.22	9.30	9.42	9.53	9.45	9.67
Minimum	------	------	------	8.38	8.17	8.64	8.69	8.60	8.72	8.47	8.40	8.52	8.17
Omaha, Nebr. (982 to 1,106 ft.)													
1935:													
Mean	------	------	------	------	------	8.72	8.79	8.78	8.82	8.92	8.91	8.93	8.84
Maximum	------	------	------	------	------	8.99	9.05	9.05	9.27	9.45	9.31	9.42	9.56
Minimum	------	------	------	------	------	8.38	8.53	8.41	8.61	8.46	8.17	8.24	8.02
1936:													
Mean	8.88	8.90	8.68	8.85	8.81	8.74	8.74	8.76	8.78	8.86	8.98	8.89	8.82
Maximum	9.49	9.28	9.17	9.22	9.16	9.10	9.21	9.03	9.24	9.43	9.43	9.26	9.49
Minimum	8.26	8.19	8.07	8.41	8.31	8.01	8.43	8.45	8.34	8.34	8.40	8.18	8.01
1937:													
Mean	8.91	8.83	8.91	8.68	8.76	8.76	8.78	8.79	8.86	8.85	8.91	8.93	8.83
Maximum	9.34	9.54	9.28	9.12	9.07	9.08	9.00	9.07	9.25	9.45	9.43	9.30	9.54
Minimum	8.18	8.03	7.95	8.19	8.41	8.36	8.48	8.49	8.55	8.37	8.26	8.49	7.95
1938:													
Mean	8.86	8.96	8.68	8.78	8.71	8.79	8.77	8.78	8.84	8.85	8.82	8.86	8.81
Maximum	9.39	9.41	9.25	9.19	9.00	9.11	8.97	9.10	9.14	9.12	9.40	9.36	9.41
Minimum	8.27	8.44	8.16	8.36	8.19	8.39	8.45	8.46	8.51	8.36	8.31	8.40	8.16
Pittsburgh, Pa. (1,273 to 842 ft.)													
1936:													
Mean	9.09	9.15	8.97	9.11	9.16	9.03	9.06	9.12	9.16	9.18	9.17	9.29	9.19
Maximum	9.59	9.53	9.36	9.54	9.60	9.31	9.45	9.45	9.39	9.54	9.68	9.67	9.68
Minimum	8.43	8.43	8.44	8.51	8.80	8.68	8.79	8.89	8.83	8.52	8.61	8.62	8.43
1937:													
Mean	9.26	9.09	9.08	9.04	9.10	9.05	9.11	9.17	9.20	9.14	9.19	9.22	9.14
Maximum	9.76	9.59	9.50	9.49	9.40	9.38	9.34	9.40	9.58	9.67	9.77	9.69	9.77
Minimum	8.69	8.48	8.54	8.63	8.77	8.69	8.84	8.64	8.78	8.63	8.58	8.62	8.48
1938:													
Mean	9.11	9.26	9.07	9.12	9.06	9.12	9.09	9.14	9.12	9.23	9.22	9.15	9.14
Maximum	9.65	9.76	9.45	9.47	9.41	9.39	9.22	9.33	9.42	9.54	9.49	9.65	9.76
Minimum	8.37	8.54	8.61	8.37	8.51	8.88	8.89	8.94	8.71	8.76	8.82	8.71	8.37
Salt Lake City, Utah (4,227 to 4,357 ft.)													
1935:													
Mean	------	------	------	------	------	------	5.57	5.58	5.62	5.64	5.71	5.72	5.62
Maximum	------	------	------	------	------	------	5.82	5.77	5.83	6.08	6.07	6.02	6.21
Minimum	------	------	------	------	------	------	5.35	5.35	5.37	4.99	5.10	5.11	4.92
1936:													
Mean	5.62	5.46	5.56	5.59	5.56	5.55	5.61	5.63	5.60	5.67	5.85	5.62	5.61
Maximum	5.99	6.02	5.96	5.99	5.80	5.74	5.76	5.78	5.88	6.00	6.21	6.00	6.21
Minimum	5.18	5.02	4.98	5.15	5.16	5.26	5.43	5.39	5.13	5.31	5.27	5.13	4.98
1937:													
Mean	5.52	5.59	5.56	5.54	5.53	5.57	5.61	5.61	5.63	5.67	5.66	5.68	5.60
Maximum	5.92	6.01	6.04	5.89	5.88	5.73	5.82	5.84	5.97	5.91	5.94	6.05	6.05
Minimum	5.04	4.79	5.06	4.92	5.12	5.30	5.41	5.35	5.28	5.33	5.26	5.06	4.79
1938:													
Mean	5.70	5.61	5.50	5.55	5.55	5.54	5.65	5.61	5.65	5.63	5.73	5.72	5.62
Maximum	6.25	5.92	5.80	5.97	5.77	5.78	5.81	5.78	5.86	5.95	6.25	5.98	6.25
Minimum	5.19	5.08	4.94	5.13	5.25	5.16	5.39	5.35	5.39	5.21	5.18	5.33	4.94

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*

ABILENE, TEX.

Airport [ϕ=32°26′ N.; λ=99°41′ W.] City [ϕ=32°27′ N.; λ=99°44′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	28.20	28.72	27.64	----	41.1	----	53.7	----	37.5	----	43.9	59.7	38.4	49.0	74	29	----	33	----	32	32	----	72	----	46	59
February	28.18	28.70	27.64	----	36.5	----	51.6	----	32.0	----	39.3	58.2	32.1	45.2	78	15	----	24	----	20	22	----	62	----	33	47
March	28.20	28.59	27.75	----	49.4	----	69.2	----	43.8	----	51.8	74.1	47.0	60.6	88	25	----	36	----	32	34	----	63	----	30	47
April	28.13	28.57	27.73	----	56.3	----	76.1	----	48.3	----	55.0	81.7	54.1	67.9	97	32	----	40	----	34	37	----	57	----	26	42
May	28.07	28.41	27.72	----	65.0	----	82.2	----	60.2	----	65.3	87.4	63.3	75.4	103	52	----	57	----	54	56	----	78	----	44	60
June	28.08	28.37	27.83	----	72.3	----	89.8	----	66.4	----	70.0	93.8	71.3	82.6	103	61	----	63	----	60	61	----	74	----	39	57
July	28.15	28.33	27.99	78.3	73.2	91.4	93.0	66.3	67.3	71.7	69.8	98.0	74.0	86.0	105	66	60	64	62	57	61	55	74	39	32	58
August	28.15	28.30	27.92	75.1	70.3	88.8	88.3	67.1	66.0	71.0	69.3	94.9	71.5	83.2	101	64	63	64	62	59	62	67	80	43	40	58
September	28.18	28.45	27.87	73.6	66.7	88.1	86.7	61.4	59.4	66.3	64.1	93.5	67.7	80.6	103	49	53	54	52	48	52	50	66	31	29	44
October	28.22	28.57	27.96	62.3	57.6	77.5	73.8	54.3	53.4	61.2	58.7	82.0	57.2	69.6	96	38	48	50	49	46	48	60	76	39	40	58
November	28.40	28.77	28.06	47.4	44.1	57.6	54.4	42.9	41.0	47.9	46.2	62.6	42.8	52.7	81	33	38	37	38	37	38	71	77	51	55	64
December	28.23	28.64	27.88	42.7	39.9	57.4	51.1	38.0	36.2	45.5	42.7	62.3	37.5	49.9	83	19	32	31	33	33	32	68	72	45	54	60
Year	28.18	28.77	27.64	----	56.0	----	72.5	----	51.0	----	56.3	79.0	54.7	66.9	105	15	----	46	----	43	44	----	71	----	39	55

ALBANY, N. Y. (Airport)

[ϕ=42°45′ N.; λ=73°48′ W.]

	(3)	(3)	(3)																							
January	29.91	30.42	29.14	21.2	20.3	25.7	23.0	19.4	18.5	22.2	20.6	29.8	14.3	22.0	53	−8	14	14	15	15	14	73	76	62	70	70
February	29.97	30.58	29.10	22.8	20.4	30.2	26.9	21.2	18.8	26.8	24.5	35.4	13.8	24.6	58	−3	17	14	19	19	17	78	76	63	70	72
March	29.96	30.50	29.30	26.2	24.1	34.0	30.6	24.3	22.4	29.3	27.4	37.3	19.2	28.2	60	−10	20	18	19	21	20	76	77	55	65	66
April	29.82	30.35	29.40	37.2	37.9	48.0	43.4	35.2	35.4	41.2	38.9	51.4	32.8	42.1	80	22	32	31	32	33	32	83	77	57	67	71
May	29.83	30.20	29.26	54.0	55.4	69.3	64.5	48.5	55.4	55.5	54.3	72.7	48.4	60.6	86	33	43	43	43	45	43	68	64	41	51	56
June	29.85	30.15	29.47	60.4	63.1	76.6	71.6	56.1	57.4	62.9	62.0	79.0	55.4	67.2	91	41	53	53	54	55	54	77	71	47	58	63
July	29.84	30.16	29.45	64.6	67.9	80.0	76.2	60.8	62.4	65.3	64.8	84.1	59.5	71.8	97	45	58	59	56	58	58	80	73	46	54	63
August	29.86	30.15	29.59	66.8	68.0	83.1	75.9	63.1	63.9	68.8	67.6	85.8	61.8	73.8	93	52	61	62	61	63	62	82	80	49	66	69
September	29.91	30.42	29.51	57.0	57.0	70.2	63.2	53.7	54.2	59.5	57.2	73.6	49.8	61.7	92	33	51	52	52	53	52	81	84	55	70	73
October	29.90	30.30	29.22	45.3	44.9	56.2	50.4	42.9	42.7	48.1	45.9	59.0	39.1	49.0	89	22	40	40	39	41	40	82	82	55	71	72
November	30.06	30.45	29.43	32.9	29.8	41.0	35.0	30.0	27.5	34.4	31.2	43.6	26.9	35.2	59	14	25	23	24	25	24	72	76	49	65	66
December	29.74	30.37	29.09	26.3	25.0	30.5	27.5	24.3	23.0	27.0	25.1	33.9	20.2	27.0	48	0	20	18	19	20	19	76	74	61	72	71
Year	29.89	30.58	29.04	42.9	42.8	53.7	49.0	40.0	40.1	45.1	43.3	57.1	36.8	46.9	97	−10	36	36	36	37	36	77	76	53	65	68

ALBUQUERQUE, N. MEX. (Airport)

[ϕ=35°03′ N.; λ=106°37′ W.]

	(4)	(4)	(4)																							
January	25.04	25.47	24.53	30.3	26.6	38.4	38.8	26.7	24.5	31.7	31.8	45.9	23.0	34.4	55	15	21	21	22	21	21	67	78	51	49	63
February	24.97	25.37	24.46	26.3	21.4	35.5	38.4	22.9	19.4	28.6	30.2	43.6	16.5	30.0	57	−6	17	15	18	17	16	65	76	46	42	59
March	25.05	25.33	24.69	40.6	34.1	52.8	56.8	34.1	30.4	41.2	41.9	61.3	31.1	46.2	74	12	24	24	28	23	24	53	67	39	30	49
April	25.02	25.33	24.72	50.8	43.6	63.3	67.7	40.1	36.9	46.3	47.3	71.9	40.2	56.0	84	27	27	29	28	25	27	43	57	29	23	40
May	24.98	25.28	24.69	61.3	50.9	74.3	78.1	46.1	42.0	51.6	51.8	82.3	48.7	65.5	93	42	30	32	30	25	28	34	51	21	16	33
June	25.00	25.26	24.74	70.1	58.5	83.9	87.7	50.0	45.4	55.8	56.1	91.7	56.9	74.3	101	46	29	31	31	27	29	24	37	16	13	25
July	25.10	25.36	24.88	69.9	62.3	83.7	86.1	57.1	54.1	61.9	60.8	91.5	61.0	76.2	97	54	48	48	48	43	45	50	62	33	28	45
August	25.10	25.22	24.90	70.5	63.8	81.4	83.3	58.7	57.0	62.1	61.3	89.6	61.8	75.7	94	56	51	53	51	47	50	53	69	36	32	51
September	25.12	25.42	24.89	66.2	60.0	76.0	78.0	55.3	52.7	58.7	58.8	83.1	58.1	70.6	94	48	47	47	47	46	46	54	65	40	36	50
October	25.11	25.39	24.79	52.1	45.1	62.3	65.1	41.9	39.1	47.5	47.2	70.2	41.9	56.0	80	28	30	32	33	29	31	45	62	35	27	45
November	25.20	25.42	24.90	41.0	34.8	49.1	51.0	34.6	30.7	39.1	39.5	56.4	31.9	44.2	71	24	24	24	27	25	25	52	65	44	39	52
December	25.12	25.44	24.66	36.9	30.6	44.0	45.7	31.6	27.4	35.6	36.6	52.7	27.2	40.0	65	14	24	23	25	25	24	61	70	47	46	58
Year	25.07	25.47	24.46	51.3	44.3	62.1	64.7	41.6	38.3	46.7	46.9	70.0	41.5	55.8	101	−6	31	32	32	29	30	50	63	36	32	48

ALPENA, MICH.

[ϕ=45°04′ N.; λ=83°30′ W.]

January	29.28	29.67	28.55	22.6	20.7	25.7	23.2	21.4	19.5	23.3	21.4	30.2	16.0	23.1	49	−11	18	17	18	17	18	82	83	71	76	78
February	29.32	29.89	28.54	16.8	16.7	22.8	19.9	15.8	15.7	20.1	18.0	26.9	9.9	18.4	44	−8	13	13	13	12	13	83	85	64	71	76
March	29.37	29.89	28.60	22.9	20.6	28.1	26.5	21.3	19.5	25.0	24.0	32.5	16.5	24.5	55	−6	18	17	18	19	18	79	83	66	70	75
April	29.25	29.69	28.70	34.1	33.3	40.4	38.5	32.0	31.0	35.8	34.6	43.9	29.9	36.9	73	12	29	27	29	28	28	81	78	65	70	73
May	29.30	29.68	28.73	48.7	49.7	57.9	55.1	45.8	46.1	49.7	48.5	62.6	43.7	53.2	89	30	43	42	42	42	42	81	77	59	65	70
June	29.28	29.63	28.76	57.0	58.5	66.8	63.6	54.6	54.6	58.6	57.4	70.2	53.2	61.7	88	44	53	52	53	53	53	86	79	64	70	75
July	29.32	29.57	28.93	62.6	64.4	73.9	72.3	59.1	60.2	64.2	63.2	77.8	58.9	68.4	90	47	57	58	58	58	58	82	78	61	62	70
August	29.30	29.68	28.84	63.5	63.4	74.1	70.5	61.2	60.2	64.9	64.3	77.5	59.4	68.4	92	51	60	58	60	61	60	88	84	63	72	77
September	29.36	29.86	28.90	56.8	55.1	64.5	59.8	53.6	52.6	56.5	54.9	67.5	50.4	59.0	97	35	51	50	51	51	51	82	85	63	74	76
October	29.30	29.74	28.73	44.0	43.1	52.2	47.2	41.6	40.7	46.1	43.7	55.6	38.7	47.2	80	25	39	38	40	40	39	82	82	64	76	76
November	29.54	30.01	28.95	34.0	33.3	40.1	36.8	31.9	31.3	35.4	33.7	42.1	30.0	36.0	64	21	29	28	29	29	29	80	81	64	73	74
December	29.17	29.66	28.66	29.3	28.7	32.9	30.6	27.8	27.0	29.8	28.2	35.3	24.6	30.0	52	7	25	24	24	24	24	83	81	70	74	77
Year	29.32	30.01	28.54	41.0	40.6	48.3	45.3	38.8	38.2	42.4	41.0	51.8	35.9	43.9	97	−11	36	35	36	36	36	82	81	64	71	75

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,738 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 97 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 4,972 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ABILENE, TEX.

Airport [H=1,750 ft.; H_b=1,750 ft.; H_t=4 ft.; H_r=2 ft.; H_a=41 ft.] City [H=1,726 ft.; H_b=1,738 ft.; H_t=10 ft.; H_r=3 ft.; H_a=56 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.60	0.83	T	5.4	10.7	S.	31	S.	0	12	5	14	6	5	1	0	0	2	1	1	1	0	0	0	7	0	1
February	.18	.10	T	4.2	11.1	S.	38	W.	1	14	8	6	4	2	3	0	2	4	0	0	0	1	0	0	15	0	2
March	1.00	.96	0.0	5.2	11.1	S.	36	NW.	3	10	10	11	4	2	0	0	2	3	0	0	0	0	0	0	1	0	3
April	.09	.04	T	4.1	12.1	S.	30	N.	0	16	6	8	5	0	1	0	1	0	0	0	0	0	7	1	1	0	5
May	6.57	2.36	.0	5.3	10.1	S.	36	NW.	1	10	9	12	15	12	0	0	1	3	0	0	0	0	8	5	0	0	18
June	4.30	2.38	.0	4.0	11.4	S.	37	SW.	3	15	12	3	7	4	0	0	2	0	0	0	0	0	23	11	0	0	7
July	.94	.67	.0	3.4	10.0	S.	23	N.	0	20	7	4	4	4	0	0	0	0	0	0	0	0	29	26	0	0	2
August	1.95	1.35	.0	4.6	8.4	S.	27	S.	0	14	9	8	5	4	0	0	0	2	1	1	1	0	28	18	0	0	11
September	.03	.02	.0	1.8	9.3	S.	25	S.	0	23	6	1	2	0	0	0	0	0	0	0	0	0	23	11	0	0	2
October	1.92	1.81	.0	3.4	9.7	S.	28	S.	0	17	6	8	5	4	0	0	0	0	0	0	0	0	5	1	0	0	2
November	1.99	.77	.0	5.6	7.2	N.	27	S.	0	12	4	14	8	7	0	0	0	3	0	0	0	0	0	0	0	0	0
December	.79	.55	5.5	3.6	8.3	S.	28	W.	0	18	6	7	4	3	3	2	0	4	0	0	3	1	0	0	7	0	0
Year	21.36	2.38	5.5	4.2	9.9	S.	38	W.	8	181	88	96	69	47	8	2	8	21	2	2	5	2	123	73	31	0	53

ALBANY, N. Y. (Airport)

[H=277 ft.; H_b=97 ft.; H_t=26 ft.; H_r=25 ft.; H_a=40 ft.]

January	2.54	1.52	16.4	8.4	10.9	N.	45	NW.	5	2	7	22	18	7	23	15	0	9	2	0	2	19	0	0	28	3	1
February	3.07	.73	11.9	7.4	10.8	S.	34	NW.	3	2	8	18	14	12	20	8	0	15	6	1	3	11	0	0	28	3	1
March	3.06	.83	20.1	6.6	10.6	NW.	35	W.	3	9	7	15	16	11	17	8	0	14	5	2	3	9	0	0	27	1	0
April	3.48	.88	6.3	8.0	10.4	S.	33	NW.	3	1	9	20	18	13	10	4	0	19	6	0	1	0	0	0	15	0	4
May	1.11	.36	.0	6.3	9.7	S.	31	NW.	0	6	13	12	8	6	0	0	0	8	1	1	1	0	0	0	0	0	5
June	3.04	1.06	.0	6.2	9.3	S.	30	NE.	0	5	14	11	11	10	0	0	0	9	1	0	0	0	3	0	0	0	6
July	2.86	1.29	.0	6.0	7.9	S.	24	NW.	0	6	15	10	10	4	0	0	1	9	1	0	0	0	9	1	0	0	8
August	1.96	.90	.0	5.4	6.7	S.	33	W.	1	11	10	10	8	7	0	0	0	18	3	2	0	0	5	0	0	0	6
September	3.61	1.59	.0	5.7	8.7	S.	33	S.	1	8	12	10	9	6	0	0	0	16	6	3	4	0	1	0	0	0	6
October	3.22	1.26	T	6.2	9.4	S.	35	NW.	1	8	10	13	13	11	4	0	1	16	7	5	5	0	0	0	9	0	5
November	1.69	1.63	1.0	5.3	10.0	NW.	33	NW.	2	11	8	11	4	2	6	2	0	7	0	0	0	1	0	0	24	0	0
December	1.53	.53	4.8	7.4	10.7	NW.	35	NW.	4	4	8	19	11	8	16	6	0	14	5	3	4	12	0	0	26	1	0
Year	31.17	1.63	60.5	6.6	9.6	S.	45	NW.	23	73	121	171	140	97	96	43	2	154	43	17	23	52	18	1	157	8	42

ALBUQUERQUE, N. MEX. (Airport)

[H=5,310 ft.; H_b=4,972 ft; H_t=5 ft.; H_r=3 ft.; H_a=34 ft.]

January	0.70	0.52	1.0	4.5	8.0	N.	41	W.	3	16	4	11	4	3	6	3	0	1	0	0	2	0	0	0	30	0	2
February	.32	.30	3.0	3.8	9.4	N.	38	W.	4	14	11	3	2	1	8	2	0	2	0	0	2	2	0	0	28	2	0
March	.67	.27	.5	4.4	9.2	N.	41	W.	5	11	12	8	6	5	4	1	2	0	0	0	0	0	0	0	14	0	3
April	.86	.59	.2	3.5	10.2	S.	39	E.	7	16	10	4	4	3	1	1	1	1	0	0	0	0	0	0	4	0	2
May	.14	.13	.0	2.9	9.6	NW.	37	NW.	1	20	7	4	2	1	0	0	0	0	0	0	0	0	2	0	0	0	4
June	T	T	.0	2.7	9.8	W.	40	NW.	3	18	12	0	0	0	0	0	0	0	0	0	0	20	8	0	0	0	2
July	2.33	1.10	.0	4.1	8.0	SE.	40	NE.	4	13	10	8	7	5	0	0	0	0	0	0	0	22	12	0	0	0	8
August	.54	.16	.0	3.9	8.3	SE.	38	NW.	4	15	11	5	5	5	0	0	0	0	0	0	0	14	0	0	0	0	14
September	1.19	.85	.0	3.4	7.9	NE.	40	NW.	1	18	8	4	6	4	0	0	0	0	0	0	0	7	0	0	0	0	3
October	.83	.79	.0	1.2	8.1	SE.	30	S.	0	27	2	2	3	3	0	0	0	1	1	1	0	0	0	0	1	0	0
November	.78	.55	T	3.8	7.6	NE.	36	E.	2	18	3	9	3	3	2	0	0	2	0	1	1	0	0	0	18	0	1
December	.10	.07	.3	3.0	6.7	NE.	30	E.	0	21	6	4	2	1	3	1	1	2	1	1	1	3	0	0	25	0	1
Year	8.46	1.10	5.0	3.4	8.6	N.	41	W.	34	207	96	62	44	34	24	8	4	9	2	3	6	5	65	20	120	2	40

ALPENA, MICH.

[H=587 ft.; H_b=609 ft.; H_t=13 ft.; H_r=4 ft.; H_a=89 ft.]

January	2.28	0.67	22.6	7.8	12.0	NW.	40	NW.	2	5	3	23	21	14	21	16	0	1	0	0	1	19	0	0	29	3	0
February	1.81	.82	9.1	6.9	13.2	NW.	40	SE.	4	5	9	14	14	9	22	11	0	1	0	0	0	20	0	0	28	4	0
March	1.25	.29	9.6	6.0	12.1	NW.	35	SW.	3	10	7	14	9	8	16	9	0	3	0	0	2	16	0	0	31	4	0
April	2.22	1.08	1.9	6.4	11.6	NW.	38	NW.	1	7	9	14	10	7	10	4	0	4	3	1	2	3	0	0	16	0	0
May	3.91	2.10	.0	5.4	10.1	SE.	28	NW.	0	9	13	9	12	9	0	0	0	4	3	1	0	0	0	0	2	0	4
June	4.59	1.75	.0	5.3	10.7	SE.	38	NW.	2	9	11	10	13	10	0	0	0	4	1	1	0	0	0	0	0	0	7
July	.96	.60	.0	3.2	9.7	NW.	40	NW.	1	18	11	2	5	3	0	0	0	1	0	0	0	0	0	0	0	0	3
August	4.08	.91	.0	4.7	9.1	NW.	28	NW.	0	13	12	6	13	11	0	0	0	3	1	0	0	0	1	0	0	0	7
September	2.78	.96	.0	5.1	11.0	NW.	30	NW.	0	9	11	10	12	10	0	0	0	1	1	1	0	0	2	2	0	0	4
October	1.10	.41	T	6.4	11.3	NW.	32	NW.	1	7	10	14	12	6	8	0	0	4	3	3	3	0	0	0	6	0	1
November	.54	.27	.7	7.2	10.3	NW.	36	SE.	1	5	6	19	6	5	8	2	0	2	1	1	1	0	0	0	23	0	0
December	1.25	.39	3.5	7.7	11.8	NW.	42	NW.	1	2	9	20	13	8	13	5	0	5	3	2	1	12	0	0	23	0	0
Year	26.77	2.10	47.4	6.0	11.1	NW.	42	NW.	16	99	111	155	140	100	98	47	0	33	16	10	10	70	3	2	158	11	26

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

AMARILLO, TEX.

Airport [ϕ=35°14′ N.; λ=101°42′ W.] City [ϕ=35°13′ N.; λ=101°50′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes			Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	26.20	26.78	25.70	----	34.1	----	45.9	----	29.9	----	37.5	52.2	31.6	41.9	72	23	----	23	----	27	25	----	63	----	48	56
February	26.18	26.64	25.72	----	25.5	----	41.4	----	22.0	----	31.7	48.6	22.3	35.4	65	8	----	14	----	15	14	----	60	----	37	48
March	26.25	26.61	25.82	----	39.3	----	59.8	----	34.0	----	43.9	66.0	36.7	51.4	80	19	----	25	----	23	24	----	60	----	29	45
April	26.23	26.68	25.80	----	46.5	----	66.4	----	41.3	----	48.9	71.4	45.0	58.2	88	24	----	35	----	30	33	----	65	----	32	49
May	26.20	26.58	25.89	----	56.7	----	75.4	----	50.7	----	57.3	79.7	55.4	67.6	96	41	----	46	----	43	44	----	69	----	36	53
June	26.20	26.57	25.91	----	64.6	----	87.2	----	56.9	----	62.4	89.5	63.6	76.6	107	56	----	51	----	43	47	----	65	----	29	47
July	26.30	26.55	26.10	70.1	63.9	87.4	87.4	62.1	59.6	67.9	67.4	92.9	68.4	80.6	100	63	58	57	58	56	57	66	79	37	35	54
August	26.30	26.56	26.02	67.7	62.9	84.9	85.4	60.8	59.1	67.0	66.3	90.5	64.9	77.7	99	55	57	57	57	56	57	69	82	42	39	58
September	26.32	26.63	25.90	66.2	58.7	83.9	83.7	55.7	52.0	63.4	62.3	89.8	61.9	75.8	102	46	48	46	50	48	48	53	66	32	31	58
October	26.30	26.65	26.00	52.4	47.1	72.6	67.5	44.8	42.1	54.7	51.8	76.9	49.0	63.0	90	32	37	37	40	37	38	57	68	33	35	58
November	26.45	26.79	26.01	36.2	32.6	54.8	48.0	31.5	29.2	42.6	38.8	60.3	36.3	48.3	81	24	24	23	28	27	27	60	68	38	45	53
December	26.28	26.67	25.89	31.8	28.8	50.5	42.4	27.1	25.3	38.7	34.0	57.0	31.1	44.0	83	6	19	19	24	23	21	63	69	43	52	57
Year	26.27	26.79	25.70	----	46.7	----	65.9	----	41.8	----	50.2	72.9	47.2	60.0	107	6	----	36	----	36	36	----	68	----	37	53

APALACHICOLA, FLA.

[ϕ=29°45′ N.; λ=84°58′ W.]

January	30.10	30.42	29.69	53.6	52.4	61.5	57.8	51.4	50.4	55.0	54.1	64.2	48.5	56.4	75	38	49	48	49	50	49	85	87	66	78	79
February	30.08	30.46	29.72	57.1	56.6	63.4	61.4	56.0	55.4	59.4	58.8	66.0	52.8	59.4	75	31	54	54	56	56	55	89	91	78	85	86
March	30.08	30.45	29.76	60.2	58.3	68.3	64.5	57.4	56.5	60.2	59.6	70.8	56.2	63.5	80	45	55	55	54	56	55	84	88	63	76	78
April	30.00	30.39	29.76	64.5	64.0	72.5	68.4	61.9	60.8	63.9	63.1	74.3	60.2	67.2	83	47	60	58	58	60	59	86	83	63	75	77
May	29.96	30.16	29.79	70.1	71.6	78.5	74.7	66.9	67.7	69.7	68.1	80.5	67.1	73.8	86	56	65	66	65	65	65	85	82	65	72	76
June	29.97	30.15	29.67	76.6	78.8	84.2	80.2	73.9	74.6	76.0	74.6	86.7	73.6	80.2	93	69	73	73	73	72	73	88	82	69	77	79
July	29.97	30.16	29.82	78.6	79.9	86.2	82.4	74.8	76.0	77.4	75.8	88.3	74.9	81.6	95	68	73	74	74	73	74	84	84	68	74	78
August	29.93	30.14	29.23	77.7	78.3	83.8	81.0	74.7	74.7	76.1	75.2	86.5	74.3	80.4	92	68	74	73	73	73	73	87	85	71	77	80
September	29.96	30.13	29.80	76.7	75.5	84.5	80.3	73.4	72.8	75.6	74.5	86.3	73.3	79.8	93	68	72	72	72	72	72	86	88	67	76	79
October	30.00	30.16	29.82	68.9	66.2	78.1	73.0	65.3	63.3	69.1	67.3	79.6	64.0	71.8	88	47	63	61	64	64	63	83	85	63	74	76
November	30.14	30.41	29.76	55.1	52.1	65.6	60.1	51.7	49.4	56.2	54.6	67.6	50.5	59.0	75	37	48	46	48	50	48	79	82	56	70	72
December	30.03	30.35	29.56	53.6	51.3	62.5	57.1	51.3	49.1	55.1	53.7	64.8	48.4	56.6	78	35	49	47	49	51	49	85	85	63	80	78
Year	30.02	30.46	29.23	66.1	65.4	74.1	70.1	63.2	62.6	66.1	65.0	76.3	62.0	69.1	95	31	61	61	61	62	61	85	85	66	76	78

ASHEVILLE, N. C.

[Φ=35°36′ N.; λ= 82°32′ W.]

January	27.70	28.07	27.10	36.2	33.8	47.7	42.5	33.2	31.9	40.0	36.8	51.1	29.3	40.2	70	17	29	29	30	29	29	74	82	53	60	67
February	27.74	28.14	27.16	41.0	38.3	50.6	47.3	37.9	36.4	43.8	42.0	55.7	33.1	44.4	75	10	34	34	36	36	35	76	84	60	65	71
March	27.74	28.11	27.15	45.1	41.6	56.5	52.4	40.4	38.6	46.8	44.2	60.1	38.1	49.1	77	24	35	35	37	35	36	68	77	51	54	62
April	27.66	28.12	27.37	49.6	47.3	62.2	57.2	44.0	43.3	50.6	47.2	65.4	42.8	54.1	81	28	38	39	40	37	38	66	73	46	49	58
May	27.72	27.93	27.41	57.3	56.5	71.3	66.2	54.0	53.5	59.6	67.2	75.6	52.2	63.9	90	34	51	51	51	52	51	81	83	52	64	70
June	27.74	27.94	27.55	68.5	67.4	81.4	75.7	65.4	64.9	69.1	68.2	85.7	63.5	74.6	92	58	64	64	63	65	64	87	88	56	70	75
July	27.74	27.89	27.56	67.6	67.0	81.4	76.4	65.2	64.7	68.9	68.3	85.6	63.0	74.3	95	54	64	64	63	64	64	89	89	56	68	76
August	27.73	27.95	27.42	66.2	64.3	80.8	73.6	64.2	62.9	68.4	66.9	84.1	61.9	73.0	91	53	63	62	62	64	63	90	93	55	72	78
September	27.79	28.07	27.58	62.7	59.5	80.0	71.8	60.5	57.9	66.3	64.6	82.5	57.3	69.9	93	48	59	57	59	61	59	89	92	51	70	76
October	27.78	28.04	27.45	53.0	49.1	70.2	61.8	50.1	47.1	56.5	53.6	73.1	46.2	59.6	85	29	47	45	46	47	46	82	87	44	59	68
November	27.87	28.18	27.59	40.0	35.8	53.4	47.2	36.3	33.6	43.0	39.9	55.5	33.8	44.6	69	26	32	30	31	31	31	73	80	46	59	64
December	27.64	28.03	27.26	36.0	33.4	47.4	42.1	32.9	30.8	38.9	36.1	50.1	29.8	40.0	70	20	29	27	28	28	28	74	77	50	59	65
Year	27.74	28.18	27.10	51.9	49.5	65.2	59.5	48.7	47.1	54.3	52.9	68.7	45.9	57.3	95	10	45	45	46	46	46	79	84	52	62	69

ATLANTA, GA. (Airport)

[ϕ=33°39′ N.; λ=84°26′ W.]

	(3)	(2)	(3)																							
January	28.85	29.19	28.33	41.4	39.2	51.5	46.2	38.8	37.4	44.9	42.1	55.1	35.3	45.2	68	25	35	35	37	37	36	79	84	60	71	74
February	28.86	29.26	28.31	45.9	44.0	55.2	51.5	43.5	44.0	48.7	47.1	60.0	39.4	49.7	77	19	40	40	41	42	41	81	85	62	72	75
March	28.86	29.28	28.35	50.2	47.1	62.9	59.5	46.3	44.3	51.8	50.3	67.2	44.5	55.8	84	30	42	41	41	41	41	75	80	49	53	64
April	28.78	29.25	28.47	54.5	52.6	68.4	63.2	49.6	48.7	54.9	53.3	72.1	48.1	60.1	82	36	45	45	42	44	44	70	74	42	53	60
May	28.79	28.99	28.53	62.8	62.8	77.1	71.3	59.7	59.7	64.5	62.9	80.2	58.4	69.3	92	41	57	58	56	57	57	84	83	52	64	71
June	28.81	28.98	28.68	71.8	73.2	85.6	79.6	69.0	69.8	73.0	72.2	89.0	68.6	78.8	95	65	68	68	67	69	68	88	85	56	71	75
July	28.79	28.97	28.64	72.8	73.0	86.8	82.1	69.3	69.5	73.1	72.4	91.1	69.4	80.2	101	64	68	68	67	68	68	85	84	54	65	72
August	28.77	28.94	28.46	71.4	71.3	83.4	78.8	69.2	68.8	72.2	71.8	86.8	68.7	77.8	99	62	68	68	67	68	68	90	88	60	72	78
September	28.83	29.08	28.61	69.9	68.5	82.7	77.5	66.3	65.5	69.6	69.5	86.0	66.4	76.2	95	60	64	64	63	66	64	84	85	53	68	72
October	28.86	29.10	28.62	57.8	55.8	73.3	65.2	54.4	52.9	60.3	58.1	77.0	52.4	64.7	89	36	51	50	51	53	51	80	83	47	65	69
November	28.97	29.28	28.65	43.5	41.0	59.0	50.8	40.4	38.5	48.0	45.0	61.2	39.2	50.2	74	30	36	36	36	38	37	77	81	46	64	67
December	28.78	29.16	28.35	41.5	38.9	52.9	47.2	38.0	36.3	44.2	41.5	55.6	35.7	45.6	72	24	33	33	34	34	34	73	78	52	62	66
Year	28.82	29.28	28.31	56.8	55.6	69.2	64.4	53.7	53.0	58.8	57.2	73.4	52.2	62.8	101	19	51	50	50	51	51	80	82	53	65	70

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 3,676 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 1,173 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

AMARILLO, TEX.

Airport [H=3,590 ft.; H_b=3,604 ft.; H_t=5 ft.; H_r=3 ft.; H_a=26 ft.] City [H=3,657 ft.; H_b=3,676 ft.; H_t=10 ft.; H_r=3 ft.; H_a=49 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.51	1.68	6.9	4.8	9.8	SW.	28	NW.	0	13	8	10	8	7	7	5	0	2	0	0	0	0	0	0	18	0	1
February	.17	.06	2.4	3.6	10.5	W.	37	SW.	1	17	4	7	5	3	6	5	0	6	6	1	1	0	0	0	26	0	0
March	.25	.09	1.2	4.0	10.3	S.	35	W.	2	15	12	4	5	3	3	3	0	2	2	2	0	1	0	0	12	0	2
April	2.30	1.64	3.3	4.9	10.8	SE.	35	NE.	1	14	7	9	5	4	3	1	0	1	0	0	0	0	0	0	4	0	2
May	1.75	.64	.0	4.8	9.2	SE.	24	W.	0	12	12	7	7	6	0	0	1	3	0	0	0	0	4	1	0	0	8
June	7.59	4.42	.0	2.9	10.1	SE.	31	SE.	0	19	10	1	11	10	0	0	0	0	0	0	0	0	14	9	0	0	11
July	.57	.28	.0	3.5	8.7	S.	22	N.	0	15	16	0	8	7	0	0	0	0	0	0	0	0	26	9	0	0	6
August	3.28	1.69	.0	3.4	7.8	S.	21	NE.	0	18	13	0	7	7	0	0	0	0	0	0	0	0	18	11	0	0	6
September	.45	.41	.0	1.8	8.4	S.	21	NW.	0	26	4	0	3	3	0	0	0	0	0	0	0	0	18	7	0	0	1
October	1.10	1.10	.0	1.9	9.5	SW.	22	SE.	0	25	4	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
November	.06	.05	.0	3.8	8.0	S.	24	W.	0	16	7	7	2	1	0	0	0	2	0	0	0	0	0	0	6	0	0
December	.98	.44	10.4	3.1	8.3	W.	21	NE.	0	19	7	5	5	4	4	4	0	0	0	0	0	4	0	0	14	0	0
Year	21.01	4.42	24.2	3.5	9.5	SW.	37	SW.	4	209	104	52	68	57	23	18	1	16	8	3	1	5	80	28	80	0	37

APALACHICOLA, FLA.

[H=13 ft.; H_b=35 ft.; H_t=11 ft.; H_r=3 ft.; H_a=51 ft.]

January	3.20	1.43	0.0	4.5	8.4	SE.	26	SE.	0	15	8	8	7	5	0	0	0	7	3	0	7	0	0	0	0	0	4
February	3.84	1.10	.0	6.6	9.6	S.	27	SE.	0	9	2	17	15	11	0	0	0	12	12	10	10	0	0	0	1	0	4
March	.71	.70	.0	5.5	7.9	S.	29	SW.	0	9	9	13	2	1	0	0	0	8	8	9	10	0	0	0	0	0	2
April	6.26	1.46	.0	5.6	9.5	S.	27	SE.	0	8	11	11	7	7	0	0	0	6	2	1	1	0	0	0	0	0	6
May	3.24	2.35	.0	5.7	9.0	SE.	24	SE.	0	10	8	13	4	4	0	0	0	3	2	1	0	0	0	0	0	0	4
June	10.88	3.80	.0	6.5	8.2	S.	38	E.	2	5	12	13	12	11	0	0	0	0	0	0	0	0	5	0	0	0	14
July	5.66	1.45	.0	6.9	6.8	W.	37	NE.	1	3	15	13	18	12	0	0	0	0	0	0	0	0	6	1	0	0	19
August	9.12	3.83	.0	6.8	8.0	SW.	52	NE.	2	6	10	15	13	12	0	0	0	1	0	0	0	0	1	0	0	0	19
September	5.72	2.42	.0	5.7	7.9	NE.	26	SE.	0	11	6	13	9	6	0	0	0	0	0	0	0	0	5	0	0	0	13
October	.22	.20	.0	4.3	8.4	NE.	22	NW.	0	16	7	8	3	1	0	0	0	1	1	1	1	0	0	0	0	0	2
November	3.17	3.17	.0	4.3	9.1	N.	32	E.	1	15	5	10	2	2	0	0	0	1	1	1	1	0	0	0	0	0	1
December	3.49	2.50	.0	4.6	7.6	NW.	24	E.	0	12	9	10	8	5	0	0	0	9	5	0	1	0	0	0	0	0	1
Year	55.51	3.83	.0	5.6	8.3	S.	52	NE.	6	119	102	144	100	77	0	0	0	48	34	23	31	0	17	1	1	0	89

ASHEVILLE, N. C.

[H=2,192 ft.; H_b=2,253 ft.; H_t=89 ft.; H_r=87 ft.; H_a=104 ft.]

January	3.94	1.84	1.2	5.5	10.2	NW.	34	SE.	2	11	7	13	14	10	11	4	0	1	1	1	1	1	0	0	23	0	1
February	5.72	1.00	.2	6.6	10.5	SE.	36	SW.	1	7	4	17	15	13	5	1	0	4	1	0	0	1	0	0	13	0	1
March	2.56	.85	4.0	5.1	10.0	NW.	30	NW.	0	11	10	10	11	8	2	1	0	2	2	0	0	0	0	0	8	0	0
April	2.38	1.01	.0	4.9	10.7	NW.	27	SE.	0	10	10	10	10	8	0	0	1	0	0	0	0	0	0	0	3	0	2
May	2.78	1.11	.0	6.4	6.8	NW.	25	NW.	0	6	9	16	14	12	0	0	0	13	4	4	2	0	1	0	0	0	9
June	4.21	1.36	.0	5.9	6.1	NW.	22	S.	0	6	15	9	13	11	0	0	0	15	6	4	4	0	2	0	0	0	13
July	3.79	1.28	.0	6.0	6.1	NW.	24	S.	0	6	14	11	16	12	0	0	1	13	5	4	4	0	3	1	0	0	14
August	5.14	2.08	.0	6.4	5.7	NW.	20	E.	0	4	15	12	15	9	0	0	0	18	10	8	5	0	3	0	0	0	11
September	1.61	.56	.0	5.0	5.6	NW.	24	E.	0	13	10	7	8	5	0	0	0	19	15	12	10	0	3	0	0	0	7
October	.82	.86	.0	4.3	6.6	NW.	26	NW.	0	14	12	5	4	3	0	0	0	15	4	4	4	0	0	0	3	0	1
November	.77	.46	.3	5.6	6.9	NW.	22	S.	0	10	7	13	7	5	3	1	0	1	0	0	0	0	0	0	14	0	0
December	2.08	.72	4.4	5.2	8.7	NW.	34	NW.	1	10	11	10	10	9	5	4	0	3	2	1	1	0	0	0	20	0	1
Year	35.80	2.08	10.1	5.6	7.8	NW.	36	SW.	4	108	124	133	137	105	26	11	2	104	50	38	31	2	12	1	84	0	60

ATLANTA, GA. (Airport)

[H=975 ft.; H_b=1,173 ft.; H_t=5 ft.; H_r=38 ft.; H_a=72 ft.]

January	4.05	1.30	0.0	5.1	11.0	NW.	34	S.	3	13	4	14	12	9	0	0	0	7	3	0	3	0	0	0	9	0	2
February	9.34	2.50	.0	6.2	11.3	E.	38	S.	1	10	2	16	15	11	0	0	0	13	6	4	3	0	0	0	6	0	5
March	4.48	2.13	.0	4.6	10.7	NW.	43	SE.	2	14	8	9	12	10	0	0	1	8	2	2	2	0	0	0	3	0	4
April	2.36	.84	.0	4.8	11.3	NW.	37	NW.	4	13	6	11	11	8	0	0	0	1	0	0	0	0	0	0	0	0	5
May	3.82	1.44	.0	7.0	7.4	SE.	31	N.	0	5	6	20	14	10	0	0	0	15	4	2	3	0	3	0	0	0	7
June	7.52	2.26	.0	7.1	7.4	NW.	32	S.	2	5	7	18	15	15	0	0	1	4	1	0	0	0	12	1	0	0	18
July	3.35	1.28	.0	6.1	7.0	NW.	30	NW.	0	6	12	13	11	9	0	0	0	9	2	3	3	0	22	4	0	0	14
August	5.91	2.50	.0	6.1	7.9	SE.	31	SE.	0	8	12	11	10	9	0	0	0	5	0	0	0	0	8	4	0	0	8
September	2.62	1.50	.0	5.3	7.6	NE.	28	NE.	0	9	12	9	8	7	0	0	0	7	3	3	1	0	10	0	0	0	3
October	.12	.07	.0	4.1	7.8	NW.	32	NW.	1	14	10	7	3	2	0	0	0	5	2	2	1	0	0	0	0	0	0
November	.41	.15	.0	4.7	7.3	NW.	21	NW.	0	13	5	12	7	3	0	0	0	7	2	1	0	0	0	0	1	0	0
December	3.10	1.08	T	4.5	10.1	NW.	32	E.	1	16	5	10	7	6	2	0	0	9	4	3	2	0	0	0	9	0	0
Year	47.08	2.50	T	5.5	8.9	NW.	43	SE.	14	126	89	150	125	99	2	0	2	90	29	20	18	0	55	9	28	0	66

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ATLANTIC CITY, N. J.

[ϕ=39°22′ N.; λ=74°25′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.98	30.45	29.28	35.1	34.7	38.7	36.5	32.6	31.8	34.6	33.1	42.2	29.8	36.0	60	13	28	27	27	27	27	76	74	66	70	71
February	30.07	30.63	29.38	37.7	36.6	42.2	40.3	35.2	34.2	38.3	37.2	46.3	32.9	39.6	61	17	31	30	32	32	31	76	76	69	74	72
March	30.02	30.57	29.32	40.2	38.7	44.5	43.2	36.9	35.8	39.2	38.7	48.9	35.1	42.0	74	23	32	31	31	32	31	72	74	61	65	67
April	29.90	30.33	29.38	46.7	46.3	52.2	49.1	43.6	42.7	45.9	44.7	55.4	42.7	49.0	79	30	40	38	38	39	39	78	74	63	71	70
May	29.92	30.23	29.43	57.1	58.4	63.4	59.1	53.5	53.9	56.1	54.3	68.1	53.5	60.8	90	40	50	50	50	50	50	80	75	66	74	72
June	29.93	30.22	29.65	67.1	68.9	72.8	68.8	63.7	63.9	65.3	64.2	76.5	63.3	69.9	95	54	62	61	61	62	61	83	77	69	78	75
July	29.92	30.20	29.57	69.5	70.5	75.3	72.5	66.3	66.1	67.8	67.2	79.0	66.0	72.5	88	57	64	64	64	64	64	85	80	70	77	76
August	29.90	30.21	29.60	74.5	75.1	79.1	76.2	71.5	71.2	72.6	71.8	81.3	71.4	76.4	92	59	70	69	70	70	70	87	83	74	82	80
September	29.99	30.47	29.55	66.6	66.1	73.2	69.4	63.2	62.8	65.3	64.2	75.0	62.2	68.6	94	52	61	60	60	61	60	83	83	67	76	75
October	29.98	30.45	29.38	57.1	56.5	63.2	58.8	53.6	53.4	55.9	54.3	66.0	51.1	58.6	87	33	50	50	49	50	50	79	81	63	74	72
November	30.12	30.46	29.62	43.1	41.4	50.9	46.0	39.2	37.8	43.2	40.7	53.0	38.0	45.5	68	30	34	33	34	34	34	71	73	54	64	66
December	29.84	30.43	29.39	37.6	36.6	43.0	39.1	34.5	33.8	37.3	35.3	45.5	32.7	39.1	61	18	30	30	28	29	29	72	75	57	67	68
Year	29.96	30.63	29.28	52.7	52.5	58.2	54.9	49.5	49.0	51.8	50.5	61.4	48.2	54.8	95	13	46	45	45	46	46	78	77	65	73	72

AUGUSTA, GA.

Airport [ϕ=33°29′ N.; λ=82°02′ W.] City [ϕ=33°28′ N.; λ=81°54′ W.]

	(1 2)	(1 2)	(1 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.91	30.27	29.42	45.6	42.1	57.7	53.8	42.1	39.7	48.2	46.3	61.9	39.1	50.5	77	29	38	36	37	37	37	75	80	49	55	65
February	29.93	30.35	29.43	51.5	48.5	61.1	57.9	48.3	46.4	53.6	52.4	65.4	45.0	55.2	78	24	45	44	46	46	45	78	84	60	68	73
March	29.90	30.36	29.36	54.9	50.9	67.3	64.8	49.9	48.0	53.9	53.6	71.1	48.8	60.0	85	32	45	45	40	43	43	70	80	41	48	60
April	29.81	30.31	29.42	58.6	56.1	71.5	69.1	53.4	52.1	57.0	57.1	75.7	52.7	64.2	85	41	48	48	44	46	47	71	76	40	47	59
May	29.81	30.03	29.55	65.4	65.3	79.5	74.7	62.0	61.9	65.2	65.2	82.9	61.0	72.0	93	44	60	60	56	59	59	82	82	46	61	68
June	29.80	29.96	29.58	75.4	76.4	88.7	83.2	71.6	72.1	73.7	73.1	92.1	72.3	82.2	100	69	70	70	67	68	69	84	82	50	64	70
July	29.79	29.97	29.54	75.1	74.2	89.2	83.8	71.0	71.2	74.4	72.7	93.1	72.1	82.6	102	67	69	70	68	67	68	83	86	51	61	70
August	29.79	29.97	29.57	73.0	72.5	84.1	78.8	70.6	70.5	74.0	72.3	89.4	71.0	80.2	97	63	70	70	70	70	70	90	91	64	75	80
September	29.84	30.09	29.62	72.6	70.7	84.4	78.5	68.0	67.0	71.8	70.0	88.3	69.4	78.8	100	62	65	65	66	66	65	79	83	55	66	71
October	29.88	30.14	29.56	62.6	59.5	76.9	68.4	57.4	56.2	62.4	59.5	80.0	56.6	68.3	91	39	53	53	52	53	53	73	81	44	59	64
November	30.02	30.35	29.70	47.2	43.6	61.7	54.6	42.6	40.4	49.5	46.2	64.3	40.5	52.4	78	30	37	36	36	36	36	69	76	43	53	60
December	29.84	30.29	29.41	45.5	41.1	56.1	50.2	40.9	37.9	46.1	43.0	59.5	37.5	48.5	74	27	35	34	34	34	34	68	75	47	56	62
Year	29.79	30.29	29.41	60.6	58.4	73.2	68.2	56.5	55.3	60.8	59.3	77.0	55.5	66.2	102	24	53	53	51	52	52	77	81	49	59	67

AUSTIN, TEX.

Airport [ϕ=33°19′ N.; λ=97°44′ W.] City [ϕ=30°16′ N.; λ=97°44′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.43	29.96	28.96	----	46.6	58.7	58.9	----	44.4	51.0	51.3	63.1	43.1	53.1	75	29	----	42	44	44	43	----	84	60	61	68
February	29.38	29.99	28.84	----	43.6	56.9	57.6	----	41.0	48.7	49.2	64.2	39.2	51.7	83	26	----	37	40	40	39	----	79	58	57	65
March	29.40	29.79	28.98	----	54.3	69.0	72.0	----	50.5	57.3	58.6	74.6	51.9	63.2	91	38	----	46	48	48	47	----	78	50	46	58
April	29.32	29.74	28.94	----	58.9	75.6	78.1	----	55.0	60.6	60.6	81.2	56.8	69.0	99	37	----	52	49	47	49	----	78	42	36	52
May	29.25	29.49	28.91	----	68.5	84.0	85.1	----	65.5	69.1	69.3	88.7	67.3	78.0	99	59	----	64	62	61	62	----	85	48	47	60
June	29.27	29.47	29.03	----	74.5	87.8	88.4	----	71.4	73.1	73.2	92.4	73.2	82.8	99	67	----	70	66	66	67	----	87	51	50	63
July	29.32	29.52	29.19	78.2	74.3	91.2	92.1	71.9	71.5	74.8	73.5	95.5	74.7	85.1	105	71	69	70	68	65	68	74	85	48	43	62
August	29.31	29.49	29.12	77.6	72.8	89.1	88.5	71.9	70.9	74.8	74.1	94.9	73.0	84.0	101	68	70	70	69	68	69	80	91	53	53	69
September	29.34	29.57	29.14	74.5	69.6	88.8	86.3	68.0	66.3	71.7	70.1	92.7	69.8	81.2	103	58	64	64	63	61	63	72	84	44	47	62
October	29.41	29.72	29.18	66.2	62.1	79.0	76.5	59.4	58.1	64.0	63.0	82.9	60.1	71.5	92	40	54	55	54	53	54	66	78	44	47	59
November	29.59	29.98	29.31	52.1	49.0	62.6	59.0	48.2	46.2	53.0	52.1	65.7	47.0	56.4	81	36	44	43	45	46	45	76	81	55	64	69
December	29.43	29.85	29.08	49.2	45.8	62.9	58.7	45.7	43.3	52.3	50.3	68.1	43.0	55.6	82	28	42	40	42	42	42	77	82	50	57	67
Year	29.37	29.99	28.84	----	60.0	75.5	75.1	----	57.0	62.5	70.4	80.3	58.3	69.3	105	26	----	54	54	53	54	----	83	50	51	63

BAKER, OREG.

Airport [ϕ=44°50′ N.; λ=117°50′ W.] City [ϕ=44°46′ N.; λ=117°50′ W.]

	(1 4)	(1 4)	(1 4)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	26.49	26.98	25.97	28.6	25.7	31.6	34.5	27.0	24.4	28.8	31.6	38.0	21.9	30.0	48	4	24	22	25	28	25	84	88	75	75	81
February	26.45	26.97	25.78	24.3	22.1	28.2	31.9	22.6	20.7	25.0	28.2	35.2	17.4	26.3	47	−6	19	18	19	22	20	80	84	67	66	75
March	26.47	26.80	26.07	35.7	31.1	43.4	49.2	32.5	29.2	36.9	40.0	51.4	28.0	39.7	72	10	28	26	29	30	28	74	82	58	50	66
April	26.50	26.95	26.21	----	37.4	----	60.4	----	33.6	----	45.4	62.8	33.9	48.4	84	21	----	29	----	29	----	----	70	----	32	51
May	26.43	26.65	26.15	----	43.1	----	67.3	----	38.9	----	50.8	70.5	40.7	55.6	87	30	----	34	----	35	34	----	71	----	34	52
June	26.42	26.70	26.03	----	44.6	----	67.9	----	40.4	----	51.5	70.9	41.9	56.4	96	30	----	36	----	36	36	----	73	----	36	54
July	26.46	26.72	26.24	59.6	48.5	74.4	83.3	50.6	44.4	57.1	60.0	85.9	52.2	69.0	103	41	43	40	44	43	42	56	75	36	27	51
August	26.46	26.63	26.26	58.4	44.4	75.8	85.6	47.8	40.0	55.5	57.9	87.1	49.8	68.4	94	39	38	35	39	35	35	48	70	27	17	43
September	26.47	26.80	26.12	48.9	38.8	65.4	73.1	42.7	36.3	51.4	53.0	75.4	42.3	58.8	90	33	36	33	39	35	34	63	80	40	29	55
October	26.53	26.98	25.94	39.2	33.1	50.7	55.9	36.5	31.4	43.3	45.8	59.4	35.2	47.3	75	25	33	29	36	36	33	80	86	59	51	68
November	26.62	26.82	26.32	26.0	21.1	43.6	44.0	24.0	19.9	36.2	36.1	53.0	25.5	39.2	63	19	20	18	26	25	21	78	86	51	48	67
December	26.51	26.82	26.88	31.5	31.3	37.9	37.3	29.7	29.6	34.2	33.9	43.5	28.6	36.0	60	5	28	27	29	30	28	86	84	72	75	79
Year	26.48	26.98	25.78	----	35.1	----	57.5	----	32.4	----	44.5	61.1	34.8	47.9	103	−6	----	29	----	32	30	----	79	----	45	62

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 182 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 605 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 3,471 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ATLANTIC CITY, N. J.

[H=8 ft.; H_b=52 ft.; H_t=37 ft.; H_r=33 ft.; H_a=172 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	5.65	2.16	4.8	7.0	16.4	W.	54	W.	9	8	4	19	13	11	9	5	0	3	2	0	1	4	0	0	16	0	2
February	6.01	1.72	T	6.3	17.0	S.	51	S.	11	9	5	14	14	12	1	0	0	11	6	0	2	1	0	0	11	0	2
March	6.04	1.87	1.3	6.4	16.8	W.	46	NW.	10	7	8	16	13	11	4	2	0	8	6	2	0	0	0	0	9	0	3
April	5.78	1.70	T	6.4	18.3	W.	44	W.	12	7	10	13	17	12	1	0	0	6	4	4	2	0	0	0	3	0	3
May	.89	.65	.0	5.5	16.1	S.	50	N.	2	11	10	10	4	2	0	0	0	6	6	3	2	0	2	0	0	0	2
June	1.60	.69	.0	6.1	14.6	S.	34	S.	2	9	7	14	9	8	0	0	0	4	2	1	2	0	3	1	0	0	6
July	1.60	.78	.0	5.3	14.1	S.	47	SW.	3	10	10	11	5	5	0	0	0	6	2	2	3	0	0	0	0	0	5
August	8.95	5.15	.0	6.1	14.6	S.	52	SE.	5	12	3	16	9	7	0	0	0	2	1	1	0	0	1	0	0	0	5
September	1.50	.97	.0	5.0	13.4	S.	39	SE.	2	8	15	7	7	5	0	0	0	4	2	1	2	0	1	0	0	0	4
October	5.11	2.23	.9	5.3	15.0	W.	53	NE.	5	11	9	11	10	7	0	0	0	0	0	0	0	0	0	0	0	0	2
November	2.17	1.95	T	4.9	17.4	W.	45	NE.	8	13	8	9	3	3	2	0	0	1	0	0	0	0	0	0	1	0	0
December	1.33	.40	5.6	5.8	16.6	W.	45	NW.	5	9	12	10	8	6	4	2	0	2	2	2	1	1	0	0	14	0	0
Year	46.63	5.15	11.7	5.8	15.8	W.	54	W.	74	114	101	150	112	89	21	9	0	53	33	16	15	6	7	1	54	0	34

AUGUSTA, GA.

Airport [H=421 ft.; H_b=426 ft.; H_t=5 ft.; H_r=3 ft.; H_a=29 ft.] City [H=134 ft.; H_b=182 ft.; H_t=62 ft.; H_r=54 ft.; H_a=77 ft.]

January	1.86	0.67	0.0	4.7	6.3	NW.	24	W.	0	14	6	11	8	6	0	0	0	1	0	0	0	0	0	0	2	0	2
February	9.61	3.05	.0	6.1	6.7	S.	33	W.	1	7	7	14	13	12	0	0	0	5	5	3	1	0	0	0	3	0	2
March	3.15	1.18	.0	4.6	6.2	NW.	28	SW.	0	14	6	11	9	7	0	0	0	4	1	0	0	0	0	0	0	0	3
April	3.07	.98	.0	4.2	6.7	NW.	24	SW.	0	13	12	5	10	10	0	0	2	1	0	0	0	0	0	0	0	0	7
May	2.55	.89	.0	5.7	5.6	S.	25	NW.	0	9	12	10	10	8	0	0	0	0	0	0	0	0	7	0	0	0	5
June	1.60	.53	.0	5.5	5.8	S.	20	NW.	0	9	7	14	11	8	0	0	0	2	1	0	0	0	24	8	0	0	16
July	6.82	3.31	.0	5.5	5.6	S.	27	NW.	0	9	14	8	9	8	0	0	0	1	0	0	0	0	27	7	0	0	12
August	5.42	1.22	.0	5.5	5.1	S.	20	NW.	0	9	13	9	16	15	0	0	0	2	1	1	0	0	15	2	0	0	11
September	3.71	2.82	.0	5.1	5.1	NE.	19	NE.	0	10	11	9	9	5	0	0	0	1	1	0	0	0	14	3	0	0	5
October	.14	.13	.0	4.3	4.9	NW.	19	NE.	0	15	9	7	3	2	0	0	0	2	1	1	0	0	3	0	0	0	0
November	.46	.36	.0	4.8	4.5	NW.	13	NW.	0	14	5	11	6	2	0	0	0	3	2	1	1	0	0	0	1	0	0
December	2.42	1.23	.0	4.2	5.5	NW.	22	W.	0	18	3	10	8	7	0	0	0	3	3	1	1	0	0	0	4	0	0
Year	40.81	3.31	0.0	5.0	5.7	NW.	33	W.	1	141	105	119	112	90	0	0	2	25	15	7	3	0	90	20	10	0	63

AUSTIN, TEX.

Airport [H=617 ft.; H_b=621 ft.; H_t=5 ft.; H_r=3 ft.; H_a=22 ft.] City [H=531 ft.; H_b=605 ft.; H_t=68 ft.; H_r=60 ft.; H_a=90 ft.]

January	2.23	0.97	0	5.7	7.9	S.	32	NW.	1	12	3	16	12	7	0	0	0	2	1	0	0	0	0	0	1	0	2
February	1.47	.89	0	5.4	8.5	N.	28	NW.	0	11	7	10	6	5	0	0	0	4	1	1	0	0	0	0	6	0	1
March	1.04	.68	0	5.7	8.2	S.	29	SW.	0	8	12	11	3	3	0	0	0	4	2	1	0	0	2	0	0	0	1
April	1.87	1.11	0	4.0	9.2	S.	29	N.	0	13	11	6	6	5	0	0	0	3	0	0	0	0	5	1	0	0	3
May	3.01	1.75	0	5.1	7.5	S.	31	NW.	0	10	13	8	6	6	0	0	0	0	0	0	0	0	13	5	0	0	7
June	1.00	.46	0	5.0	8.5	S.	24	NE.	0	11	11	8	7	6	0	0	0	3	0	0	0	0	22	8	0	0	2
July	3.57	2.33	0	3.5	8.5	S.	29	NE.	0	19	8	4	5	4	0	0	0	0	0	0	0	0	28	18	0	0	4
August	1.62	.66	0	4.2	6.2	S.	29	SE.	0	14	11	6	6	6	0	0	0	0	0	0	0	0	28	16	0	0	6
September	1.64	.72	0	2.8	7.0	S.	35	NE.	1	17	11	2	7	6	0	0	0	1	0	0	0	0	24	8	0	0	3
October	1.62	1.37	0	4.5	7.2	S.	22	N.	0	14	10	7	6	5	0	0	0	2	0	0	0	0	6	0	0	0	1
November	2.26	1.42	0	6.6	6.7	N.	21	N.	0	7	7	16	8	5	0	0	0	3	1	0	0	0	0	0	0	0	0
December	.80	.55	T	3.8	6.4	NW.	24	NW.	0	17	6	8	4	3	1	0	0	2	0	0	0	0	0	0	4	0	0
Year	22.13	2.33	T	4.7	7.6	S.	35	NE.	2	153	110	102	76	61	1	0	0	24	5	2	0	0	128	56	11	0	30

BAKER, OREG.

Airport [H=3,368 ft.; H_b=3,373 ft.; H_t=5 ft.; H_r=3 ft.; H_a=28 ft.] City [H=3,365 ft.; H_b=3,471 ft.; H_t=36 ft.; H_r=41 ft.; H_a=54 ft.]

January	0.52	0.22	8.4	8.3	5.8	S.	22	S.	0	3	5	23	5	4	16	5	0	8	4	6	2	2	0	0	29	0	0
February	.61	.25	12.6	7.6	6.3	S.	38	SW.	1	3	8	17	9	5	21	9	0	1	0	0	0	6	0	0	28	1	0
March	.36	.15	7.3	6.0	6.4	SE.	21	N.	0	11	2	18	8	4	13	8	0	8	3	1	2	1	0	0	16	0	0
April	.29	.29	2.2	6.1	7.3	N.	24	S.	0	7	10	13	1	1	1	1	0	0	0	0	0	0	0	0	12	0	0
May	.87	.39	.0	5.1	6.6	N.	22	N.	0	9	14	8	7	5	0	0	2	0	0	0	0	0	0	0	2	0	3
June	.60	.25	.0	5.3	6.0	N.	22	N.	0	8	15	7	7	4	0	0	1	0	0	0	0	0	2	1	1	0	2
July	.59	.33	.0	3.0	6.0	N.	18	N.	0	20	8	3	5	3	0	0	0	0	0	0	0	0	13	6	0	0	5
August	.04	.04	.0	3.0	6.5	N.	22	N.	0	18	11	2	1	1	0	0	0	0	0	0	0	0	12	0	0	0	1
September	.56	.41	.0	3.6	6.1	S.	29	W.	0	17	6	7	4	2	0	0	1	0	0	0	0	0	1	0	0	0	1
October	.50	.25	1.8	6.1	5.9	S.	17	N.	0	8	8	15	5	4	4	1	0	3	0	0	1	0	0	0	8	0	0
November	T	T	.0	5.2	6.2	SE.	15	W.	0	11	9	10	0	0	0	0	0	2	0	0	0	0	0	0	30	0	0
December	.85	.24	2.8	7.8	5.8	SE.	25	SW.	0	3	9	19	16	7	13	5	0	3	1	0	0	4	0	0	20	0	0
Year	5.79	0.41	35.1	5.6	6.2	S.	38	SW.	1	118	105	142	68	40	68	29	4	25	8	7	5	13	28	7	146	1	12

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BALTIMORE, MD.

Airport [ϕ=39°15′ N.; λ=76°31′ W.] City [ϕ=39°17′ N.; λ=76°37′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.92	30.35	29.22		34.3		38.4		30.9		33.8	44.8	31.1	38.0	63	17		25		26	25		68		62	64
February	29.99	30.54	29.22		37.3		43.3		33.9		37.7	49.9	33.8	41.8	74	18		28		29	29		68		59	63
March	29.95	30.50	29.35		39.6		47.6		35.4		40.7	53.7	36.7	45.2	85	22		29		31	30		66		54	60
April	29.83	30.26	29.41		48.6		55.3		43.5		47.0	62.1	44.7	53.4	89	32		37		38	37		66		55	60
May	29.85	30.15	29.29		62.7		71.5		55.4		59.8	77.9	58.9	68.4	94	41		49		51	50		63		50	57
June	29.85	30.11	29.56		71.5		78.1		64.5		67.5	84.0	67.0	75.5	96	59		60		69	65		69		59	64
July	29.85	30.11	29.53	71.3	72.9	83.0	77.6	67.4	67.5	71.2	69.9	85.0	69.5	77.2	93	62	65	64	65	66	65	82	76	57	69	71
August	29.84	30.14	29.58	73.9	74.1	86.6	76.5	69.9	69.2	72.3	71.9	87.6	72.5	80.0	97	67	68	67	65	68	67	82	78	50	71	70
September	29.92	30.38	29.54	64.6	64.4	77.9	70.2	61.8	61.6	67.3	64.7	79.8	62.7	71.2	100	54	60	60	61	62	61	85	85	58	75	76
October	29.92	30.41	29.41	53.7	52.6	66.1	58.4	50.9	50.1	56.1	53.3	68.2	51.1	59.6	93	37	48	48	48	48	48	82	84	55	71	73
November	30.08	30.40	29.65	41.0	38.3	53.6	44.5	36.9	35.2	43.5	39.4	55.1	39.8	47.4	72	33	31	31	31	33	32	68	74	44	64	62
December	29.98	30.38	29.32	35.4	34.5	44.3	39.1	33.7	31.7	38.0	34.7	47.1	34.5	40.8	70	20	29	27	29	28	28	73	74	57	64	67
Year	29.91	30.54	29.22		53.6		59.6		48.2		51.7	66.3	50.2	58.2	100	17		44		46	45		73		63	66

BILLINGS, MONT. (Airport)

[ϕ=45°48′ N.; λ=108°32′ W.]

January	26.21	26.73	25.87	31.7	30.8	35.7	36.5	26.9	25.8	29.0	29.6	41.9	24.3	33.1	57	6	18	17	18	18	18	58	57	48	47	52
February	26.24	26.65	25.79	16.4	13.9	20.2	21.9	14.6	12.2	17.1	18.6	27.5	8.9	18.2	50	−27	11	8	11	12	10	79	79	70	68	74
March	26.30	26.71	25.98	33.7	29.8	39.2	44.1	29.2	26.7	32.8	35.3	47.5	25.3	36.4	73	−7	24	22	25	24	24	69	74	61	51	64
April	26.32	26.87	25.96	45.4	39.2	52.7	56.2	38.1	34.8	42.1	43.0	61.4	34.6	48.0	92	12	29	29	29	28	29	57	68	45	41	53
May	26.27	26.64	25.84	56.0	48.4	64.8	67.8	47.4	43.6	51.2	51.6	72.5	45.3	58.9	90	35	39	38	39	36	38	57	70	42	37	52
June	26.26	26.60	25.82	55.2	50.0	63.0	67.7	50.3	47.6	52.9	54.3	71.8	47.5	59.6	92	39	46	45	46	44	45	75	85	55	46	65
July	26.32	26.59	26.05	70.5	61.5	77.9	85.1	57.5	54.1	61.1	61.8	89.1	58.0	73.6	106	49	48	48	50	46	48	48	64	40	28	45
August	26.35	26.70	26.12	68.0	57.7	74.5	81.0	53.2	49.1	56.9	58.0	84.8	54.1	69.4	96	40	41	41	44	40	42	40	57	36	26	40
September	26.33	26.83	25.92	58.2	51.2	65.1	70.5	47.3	43.8	51.3	52.7	74.5	46.4	60.4	93	30	36	36	39	37	37	50	60	43	34	47
October	26.32	26.75	25.86	46.5	41.6	52.5	53.5	39.5	37.3	43.0	43.0	61.4	37.0	49.2	78	24	31	32	33	31	32	61	72	52	49	58
November	26.44	26.68	25.91	38.8	33.8	46.1	49.2	31.5	28.3	36.4	37.8	56.0	29.1	42.6	69	14	20	19	22	22	21	45	54	40	33	43
December	26.31	26.67	25.81	36.2	34.3	40.1	40.6	29.5	28.5	32.5	32.6	47.0	28.1	37.6	69	1	19	19	22	21	20	54	58	52	50	54
Year	26.31	26.87	25.79	46.4	41.0	52.6	56.2	38.8	36.0	42.2	43.2	61.3	36.6	48.9	106	−27	30	30	32	30	30	58	66	49	42	54

BINGHAMTON, N. Y.

[ϕ=42°06′ N.; λ=75°55′ W.]

January	29.06	29.44	28.41	25.8	23.2	29.9	26.7	23.8	21.5	26.5	24.5	34.0	18.3	26.2	57	−9	20	18	19	20	19	78	82	63	76	75
February	29.12	29.68	28.40	27.4	24.7	33.0	31.6	25.2	22.7	28.7	28.7	39.0	19.2	29.1	61	0	21	19	20	24	21	77	78	59	71	71
March	29.11	29.63	28.54	29.7	28.4	37.5	34.5	27.7	26.4	31.6	30.5	42.2	23.3	32.8	77	8	24	22	21	24	23	77	78	53	64	68
April	28.99	29.41	28.60	40.6	39.9	49.7	45.9	37.6	36.8	41.9	40.5	53.8	35.5	44.6	85	24	34	33	32	34	33	76	75	54	64	67
May	29.04	29.36	28.48	53.6	54.2	70.8	66.9	49.4	49.7	56.5	55.5	74.3	48.2	61.2	91	32	45	45	44	46	45	74	73	40	48	59
June	29.07	29.31	28.73	62.0	62.5	76.3	71.8	57.8	57.8	62.5	61.7	79.1	56.4	67.8	91	42	55	55	53	55	54	79	76	47	58	65
July	29.06	29.34	28.70	64.2	64.6	80.5	77.2	59.9	60.3	65.0	64.5	83.6	59.5	71.6	95	44	57	58	55	57	57	78	78	44	51	63
August	29.07	29.36	28.84	66.7	64.6	83.4	78.1	62.3	61.5	65.9	65.4	86.6	61.1	73.8	93	53	60	60	55	58	58	79	85	40	51	64
September	29.13	29.58	28.73	58.8	56.3	71.9	65.8	55.1	53.7	59.4	57.6	76.7	52.1	64.4	96	35	53	52	51	52	52	81	85	51	63	70
October	29.11	29.53	28.48	47.0	45.6	57.2	52.4	44.5	43.5	48.9	46.8	61.1	41.2	51.2	87	26	42	41	41	41	41	81	84	56	66	72
November	29.25	29.60	28.76	33.4	31.0	42.8	37.1	30.6	28.7	35.8	32.8	45.2	27.7	36.4	66	18	26	25	26	26	26	73	78	50	64	66
December	28.92	29.51	28.44	29.4	27.6	33.0	30.8	27.2	25.8	29.6	28.2	36.8	23.2	30.0	54	−3	23	22	23	23	23	76	80	65	72	73
Year	29.08	29.68	28.40	44.9	43.6	55.5	51.6	41.8	40.7	46.0	44.7	59.4	38.8	49.1	96	−9	38	38	37	38	38	77	79	52	62	68

BIRMINGHAM, ALA.

Airport [ϕ=33°34′ N.; λ=86°45′ W.] City [ϕ=33°32′ N.; λ=86°50′ W.]

	(1 3)	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.35	29.72	28.73		43.9	52.9	51.2		40.8	45.3	44.9	59.1	39.8	49.4	74	28		37	36	37	37		76	56	61	68
February	29.34	29.71	28.75		46.2	54.9	54.2		43.3	48.1	47.5	61.8	42.0	51.9	76	22		40	41	40	40		78	62	62	70
March	29.36	29.78	28.89		50.7	63.5	61.9		46.8	52.6	51.6	68.6	47.7	58.2	82	32		42	42	41	42		75	50	51	63
April	29.27	29.77	28.90		53.9	67.4	64.5		49.8	55.0	53.9	71.7	50.4	61.0	82	34		46	44	44	45		75	46	51	63
May	29.25	29.44	28.93		63.4	75.4	72.5		60.4	64.9	63.8	79.2	60.6	69.9	87	45		58	58	58	58		84	58	64	74
June	29.26	29.45	29.13		72.7	83.2	78.9		70.0	73.6	72.0	87.2	70.0	78.6	94	65		69	70	69	69		88	65	73	80
July	29.28	29.44	29.14	73.1	73.3	87.0	82.9	70.5	70.7	74.1	73.5	90.4	71.0	80.7	99	67	69	70	68	69	69	88	88	56	65	77
August	29.24	29.44	28.99	71.3	70.7	85.2	78.2	69.5	69.1	73.6	72.6	87.1	69.7	78.4	93	65	69	68	69	70	69	92	93	59	77	85
September	29.31	29.53	29.07	68.6	66.7	85.0	76.8	66.5	64.9	71.6	71.2	86.9	67.1	77.0	94	54	65	64	65	69	66	90	91	54	77	84
October	29.36	29.59	29.19	56.9	53.5	74.6	62.9	54.1	51.9	60.8	58.2	77.8	55.5	66.6	88	36	52	50	51	55	53	86	90	45	75	83
November	29.50	29.77	29.15	42.4	38.7	59.3	49.6	39.7	36.8	48.5	44.9	62.4	42.0	52.2	77	30	37	35	37	40	37	83	87	47	70	79
December	29.31	29.65	28.76	41.3	38.0	54.2	46.9	38.6	36.2	45.2	42.2	57.8	39.8	48.8	76	23	35	34	35	36	35	80	86	52	68	77
Year	29.32	29.78	28.73		56.0	70.2	65.0		53.4	59.4	58.0	74.2	54.6	64.4	99	22		51	51	52	52		84	54	66	75

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 123 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 700 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BALTIMORE, MD.

Airport [H=12 ft.; H_b=16 ft.; H_t= 5 ft.; H_r= 2 ft.; H_a=41 ft.] City [H=14 ft.; H_b=123 ft.; H_t=100 ft.; H_r=90 ft.; H_a=215 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.77	2.57	8.0	6.5	10.6	SW.	45	SW.	3	10	4	17	14	4	8	6	0	7	3	0	0	1	0	0	15	0	0
February	6.52	1.33	.2	5.8	11.0	S.	35	NW.	2	11	2	15	12	10	2	1	0	7	6	1	1	1	0	0	10	0	1
March	3.75	.86	.2	5.3	11.3	SW.	38	SW.	3	11	9	11	13	11	4	1	0	9	4	2	2	0	0	0	7	0	2
April	5.92	2.74	T	6.1	12.0	SW.	40	SW.	4	10	6	14	14	12	1	0	0	8	4	3	3	0	0	0	1	0	2
May	1.47	.68	.0	4.7	10.0	SW.	30	SW.	0	12	11	8	4	4	0	0	1	1	0	0	0	0	4	0	0	0	3
June	3.86	1.55	.0	6.1	10.2	S.	34	SE.	1	9	9	12	13	11	0	0	1	5	1	1	1	0	7	3	0	0	7
July	2.41	.55	.0	5.5	9.4	S.	36	SW.	1	11	8	12	12	10	0	0	0	2	1	1	1	0	7	0	0	0	8
August	3.52	2.40	.0	5.5	9.5	S.	43	NE.	1	13	5	13	10	6	0	0	0	5	0	0	0	0	13	1	0	0	9
September	3.08	1.19	.0	4.9	9.2	S.	30	SW.	0	11	11	8	8	7	0	0	0	9	2	2	2	0	1	1	0	0	5
October	4.01	1.67	.0	5.2	9.4	SW.	38	NW.	2	12	9	10	7	7	0	0	1	13	3	1	1	0	2	0	0	0	1
November	.76	.68	T	4.1	10.4	N.	34	SW.	1	14	9	7	4	3	4	1	0	2	0	0	0	0	0	0	0	0	0
December	1.87	.51	6.9	6.2	11.6	SW.	40	NW.	5	9	8	14	10	8	9	4	0	8	2	1	1	1	0	0	11	0	0
Year	40.94	2.74	15.3	5.5	10.4	SW.	45	SW.	23	133	91	141	121	93	28	13	3	76	26	12	12	3	34	5	44	0	38

BILLINGS, MONT. (Airport)

[H=3,568 ft.; H_b=3,570 ft.; H_t=18 ft.; H_r=3 ft.; H_a=39 ft.]

January	0.39	0.21	7.9	----	----	------	----	------	----	6	9	16	5	2	12	5	0	3	2	1	1	2	0	0	29	0	0
February	.35	.10	9.2	----	----	------	----	------	----	1	10	17	9	4	14	9	0	10	2	1	2	15	0	0	28	6	0
March	.91	.25	12.3	6.0	11.9	SW.	33	NW.	2	8	6	17	8	7	13	7	0	8	2	2	1	5	0	0	21	1	0
April	.83	.30	1.0	6.3	12.0	SW.	45	NW.	8	7	7	16	7	5	5	3	0	2	2	1	1	0	1	0	9	0	1
May	1.75	.98	.0	4.8	11.0	SW.	56	NW.	5	14	7	10	10	8	0	0	1	2	1	1	1	0	0	0	0	0	3
June	5.31	1.26	.0	6.6	10.3	N.	57	N.	4	5	11	14	13	11	0	0	1	4	1	0	0	0	1	0	0	0	8
July	.11	.06	.0	4.2	9.7	SW.	49	NW.	8	16	6	9	6	1	0	0	0	0	0	0	0	0	14	8	0	0	8
August	.76	.35	.0	4.2	9.7	SW.	42	N.	7	13	12	6	4	4	0	0	0	0	0	0	0	0	16	1	0	0	3
September	.22	.10	.5	4.4	10.1	SW.	39	N.	1	12	11	7	4	3	3	2	0	4	2	1	3	0	1	0	2	0	1
October	.92	.70	1.4	6.3	11.9	SW.	40	NW.	5	5	11	15	6	3	6	3	0	3	3	2	2	1	0	0	8	0	0
November	.05	.05	.0	3.8	11.6	SW.	56	NW.	3	18	3	9	1	1	0	0	0	1	0	0	1	0	0	0	20	0	0
December	.12	.06	2.1	7.2	13.1	SW.	43	NW.	6	4	12	15	4	1	9	2	0	1	1	0	1	7	0	0	18	0	0
Year	11.72	1.26	34.4	----	----	------	----	------	----	109	105	151	77	50	62	31	2	38	16	9	13	30	33	9	135	7	24

BINGHAMTON, N. Y.

[H=858 ft.; H_b=871 ft.; H_t=57 ft.; H_r=49 ft.; H_a=79 ft.]

January	2.59	1.15	22.9	8.7	7.3	NW.	30	W.	0	1	7	23	15	12	23	12	0	9	1	0	0	13	0	0	27	2	0
February	3.89	1.41	11.0	7.9	7.6	NW.	24	SE.	0	0	11	17	12	10	16	9	0	15	1	0	0	5	0	0	26	0	0
March	3.32	1.16	11.9	7.9	7.3	NW.	32	SW.	1	4	6	21	20	12	21	14	0	7	0	0	0	10	0	0	26	0	1
April	2.44	.49	1.4	8.5	7.3	NW.	21	NW.	0	1	8	21	19	15	11	7	0	16	0	0	0	1	0	0	12	0	1
May	.82	.31	.0	6.5	5.9	NW.	30	SW.	0	4	13	14	8	5	0	0	0	15	2	1	1	0	1	0	1	0	6
June	1.82	.54	.0	6.9	6.1	NW.	17	W.	0	4	11	15	12	9	0	0	0	19	4	1	1	0	1	0	0	0	6
July	1.24	.39	.0	6.4	5.9	NE.	18	NW.	0	5	14	12	11	7	0	0	0	2	0	0	0	0	5	1	0	0	6
August	1.01	.42	.0	5.7	5.7	NE.	21	W.	0	6	14	11	8	7	0	0	0	10	6	1	0	0	6	0	0	0	7
September	4.65	1.81	.0	6.6	5.8	E.	24	NW.	0	4	13	13	13	11	0	0	0	6	4	4	3	0	4	2	0	0	7
October	3.02	.74	T	6.9	6.2	NW.	28	NW.	0	4	11	16	18	16	4	0	1	6	2	2	2	0	0	0	6	0	4
November	.46	.32	.9	6.4	6.4	NW.	25	NW.	0	4	14	12	7	2	9	3	0	4	1	0	0	0	0	0	23	0	0
December	2.12	.78	3.9	8.5	7.7	NW.	28	NW.	0	1	7	23	17	7	17	9	0	9	1	0	0	10	0	0	24	1	0
Year	27.38	1.81	52.0	7.2	6.6	NW.	32	SW.	1	38	129	198	160	113	101	54	1	118	22	9	7	39	17	3	145	3	38

BIRMINGHAM, ALA.

Airport [H=610 ft.; H_b=630 ft.; H_t=5 ft.; H_r=3 ft.; H_a=55 ft.] City [H=694 ft.; H_b=700 ft.; H_t=11 ft.; H_r=3 ft.; H_a=48 ft.]

January	4.57	1.70	0.0	5.0	8.9	NW.	35	SW.	2	13	5	13	13	12	0	0	0	2	----	----	1	0	0	0	5	0	3
February	8.24	2.29	.0	5.8	9.7	S.	34	SE.	2	7	11	10	13	12	0	0	0	0	----	----	0	0	0	0	3	0	6
March	4.35	1.38	.0	4.7	7.9	S.	25	SE.	0	11	11	9	12	12	0	0	0	0	----	----	0	0	0	0	1	0	7
April	4.47	1.92	.0	4.9	8.1	S.	26	SE.	0	10	11	9	9	8	0	0	2	0	----	----	0	0	0	0	0	0	7
May	5.88	2.79	.0	6.5	6.5	S.	25	S.	0	5	12	14	16	14	0	0	0	0	----	----	0	0	0	0	0	0	10
June	4.97	2.06	.0	6.7	6.0	S.	24	SE.	0	4	11	15	12	10	0	0	0	0	----	----	0	0	4	0	0	0	15
July	3.39	1.06	.0	5.2	5.1	NW.	24	SE.	0	9	16	6	14	12	0	0	0	2	----	----	0	0	19	4	0	0	13
August	8.50	2.25	.0	5.6	5.7	S.	21	S.	0	11	8	12	13	9	0	0	0	3	----	----	0	0	8	0	0	0	13
September	7.69	3.50	.0	4.5	5.5	E.	19	N.	0	14	8	8	11	10	0	0	0	0	----	----	0	0	9	0	0	0	8
October	.17	.10	.0	3.4	6.1	S.	16	SE.	0	17	8	6	3	3	0	0	0	0	----	----	0	0	0	0	0	0	0
November	.75	.34	.0	4.9	5.9	N.	18	S.	0	13	5	12	7	3	0	0	0	0	----	----	0	0	0	0	5	0	0
December	2.82	1.10	T	4.7	7.1	W.	29	SE.	0	16	5	10	6	5	1	0	0	1	----	----	0	0	0	0	5	0	1
Year	55.80	3.50	T	5.2	6.9	S.	35	SW.	4	130	111	124	129	110	1	0	2	8	----	----	1	0	40	4	19	0	83

TABLE 16—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BISMARCK, N. DAK.

Airport [ϕ=46°47′ N.; λ=100°48′ W.] [City ϕ=46°47′ N.; λ=100°48′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	■	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	%	%	%	%
January	28.09	28.57	27.69		14.8	23.4	22.8		13.9	21.0	20.8	29.4	8.7	19.0	46	−10		11	16	16	14		84	72	75	77
February	28.22	28.74	27.78		−3.2	6.1	7.0		−3.7	4.6	5.6	13.1	−10.1	1.5	45	−39		−7	−1	0	2		84	71	73	76
March	28.25	28.69	27.78		18.5	33.0	34.5		17.5	27.5	28.6	38.2	15.0	26.6	79	−9		15	19	20	18		86	59	60	68
April	28.18	28.64	27.58		33.8	50.8	53.0		31.6	40.5	40.8	56.5	31.3	43.9	86	11		28	27	25	27		81	42	36	53
May	28.09	28.53	27.60		51.4	70.1	71.7		47.2	55.0	55.1	75.0	49.0	62.0	98	32		43	42	40	42		74	39	35	49
June	28.10	28.38	27.73		53.4	67.3	69.9		51.2	57.6	58.0	72.0	51.3	61.6	89	39		50	51	50	50		87	57	51	65
July	28.15	28.47	27.87	66.7	62.9	82.8	86.8	60.9	58.9	67.1	67.1	87.6	61.2	74.4	100	53	57	56	58	56	57	72	80	45	36	58
August	28.16	28.45	27.84	62.1	57.6	79.6	81.0	55.2	51.6	61.7	61.3	84.4	55.4	69.9	99	43	50	48	49	47	48	67	78	38	34	54
September	28.17	28.73	27.72	53.7	46.9	67.4	70.3	47.5	43.7	53.7	54.2	74.5	45.8	60.2	93	26	41	40	42	40	41	64	78	42	36	55
October	28.17	28.71	27.77	39.2	35.5	48.7	47.1	35.4	32.8	40.6	39.4	53.9	32.0	43.0	76	8	30	29	31	30	30	71	78	53	54	64
November	28.36	28.84	27.71	30.0	25.6	41.4	39.0	26.8	23.5	34.9	32.8	49.8	23.0	36.4	69	10	21	20	25	23	22	69	77	54	53	63
December	28.18	28.58	27.65	25.0	21.8	31.0	30.2	22.4	19.9	26.4	25.8	37.9	17.5	27.7	66	−9	18	16	19	18	18	74	78	64	64	70
Year	28.18	28.84	27.58		34.9	50.1	51.1		32.3	40.9	40.8	56.0	31.7	43.8	100	−39		29	32	30	31		80	53	51	63

BLOCK ISLAND, R. I.

[ϕ=41°10′ N.; λ=71°36′ W.]

January	29.96	30.50	29.26		31.4		32.7		30.0		29.9	37.5	26.3	31.9	53	8		25		25	25		75		74	74
February	30.05	30.61	29.37		33.1		37.0		31.3		34.7	42.6	27.8	35.2	56	12		28		30	29		80		77	78
March	30.01	30.54	29.22		33.8		37.0		31.3		33.9	41.7	29.4	35.6	61	13		27		28	28		75		72	73
April	29.90	30.44	29.23		42.9		43.7		40.5		41.0	49.6	38.0	43.8	60	31		37		38	37		81		79	80
May	29.93	30.27	29.44		52.4		51.8		49.9		49.3	61.1	46.3	53.7	82	40		48		47	47		84		84	84
June	29.96	30.27	29.68		62.6		61.7		59.0		58.3	69.6	56.2	62.9	83	50		56		56	56		81		82	82
July	29.95	30.27	29.62	65.7	67.3	73.0	67.8	64.0	64.2	66.8	65.0	74.7	62.9	68.8	82	56	63	62	63	64	63	92	85	72	86	84
August	29.95	30.29	29.72	70.3	71.7	76.5	71.4	68.7	68.7	70.4	68.9	78.4	67.1	72.8	85	61	68	67	67	68	68	92	86	74	88	85
September	30.02	30.56	29.60	62.2	63.1	68.8	63.2	59.2	59.9	61.8	59.8	69.1	58.0	63.6	77	50	57	58	58	58	58	84	83	75	83	81
October	29.98	30.39	29.16	54.3	54.2	58.3	55.5	51.8	51.2	53.5	51.4	61.2	48.4	54.8	73	34	49	48	49	47	48	84	80	73	74	78
November	30.08	30.50	29.20	42.3	40.9	45.1	43.7	38.8	37.3	40.2	39.0	48.0	36.6	42.3	57	24	34	32	34	32	33	73	71	65	64	68
December	29.79	30.38	29.25	35.3	34.4	38.5	36.8	32.7	31.7	34.8	33.5	42.1	29.6	35.8	57	10	28	27	28	28	28	73	73	66	68	70
Year	29.96	30.61	29.16		49.0		50.2		46.2		47.1	56.3	43.9	50.1	85	8		43		42	43		80		78	78

BOISE, IDAHO

Airport [ϕ=43°34′ N.; λ=116° 13′ W.] City [ϕ=43°37′ N.; λ=116° 13′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)			(1)					(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	27.25	27.73	26.69		29.9	36.9	38.3		28.2	32.6	33.8	41.2	26.8	34.0	61	15		26	27	28	27		85	67	66	73
February	27.22	27.73	26.64		26.8	34.3	35.8		24.5	29.4	30.4	38.0	22.9	30.4	47	0		20	21	22	21		75	58	56	63
March	27.20	27.54	26.74		36.2	50.3	53.3		33.2	41.6	42.6	55.1	33.8	44.0	71	16		29	32	31	31		76	52	44	57
April	27.20	27.70	26.86		43.6	61.2	65.0		37.4	46.0	47.6	66.9	40.4	53.6	88	26		30	29	28	29		60	31	27	39
May	27.10	27.36	26.74		49.7	69.9	74.0		43.0	52.2	53.3	76.0	47.7	61.8	91	36		36	36	34	35		60	31	25	39
June	27.10	27.42	26.68		50.9	70.5	74.9		44.2	52.4	54.2	77.0	49.2	63.1	98	38		38	36	36	37		63	30	27	40
July	27.12	27.43	26.91	69.1	58.4	82.1	89.6	58.2	52.6	61.0	61.8	90.8	61.0	75.9	102	48	51	48	47	42	47	55	70	31	21	44
August	27.12	27.29	26.93	65.6	55.5	82.9	89.9	55.9	50.0	59.6	61.3	90.8	58.6	74.7	100	46	49	46	42	40	44	58	71	25	18	43
September	27.15	27.49	26.71	56.2	48.7	71.2	77.8	50.3	45.8	54.6	56.4	78.5	50.1	64.3	92	41	45	43	41	39	42	69	82	41	27	55
October	27.23	27.69	26.64	46.1	40.8	57.5	61.2	42.9	39.3	47.7	49.7	63.7	40.9	52.3	79	29	40	38	39	40	39	81	90	52	48	68
November	27.36	27.55	27.10	31.9	27.4	47.0	48.7	30.2	26.5	39.3	40.6	54.5	30.2	42.4	69	22	28	25	30	31	28	84	90	53	52	70
December	27.21	27.61	26.66	36.6	34.3	41.8	42.7	34.3	32.6	37.5	38.2	47.7	32.6	40.2	70	16	32	30	32	33	32	82	87	71	71	78
Year	27.19	27.73	26.64		41.8	58.8	62.6		38.1	46.2	47.5	65.0	41.2	53.1	102	0		34	44	34	34		76	45	40	56

BOSTON, MASS. (Airport)

[ϕ=42°22′ N.; λ=71°02′ W.]

	(4)	(4)	(4)																							
January	29.83	30.41	29.00	26.1	25.4	31.8	29.2	23.3	22.6	27.6	25.8	35.0	20.7	27.8	55	4	16	16	18	18	17	65	65	57	62	62
February	29.93	30.50	29.18	29.2	27.7	35.5	33.4	27.2	25.6	31.8	30.7	40.6	23.7	32.2	66	9	23	21	25	25	24	76	76	66	72	72
March	29.90	30.40	29.12	31.0	29.9	36.9	34.2	28.3	27.6	32.6	30.5	40.3	26.1	33.2	58	9	22	23	24	23	23	70	74	62	64	68
April	29.78	30.37	29.04	39.9	40.6	47.3	43.9	36.5	37.1	40.6	39.3	50.4	36.9	43.6	69	26	31	32	33	33	32	72	72	59	67	68
May	29.82	30.18	29.29	51.8	54.9	61.7	56.0	48.1	49.6	51.8	50.1	64.8	48.1	56.4	90	39	44	45	42	44	44	78	70	52	68	67
June	29.84	30.16	29.56	61.7	64.2	69.1	66.6	57.2	57.9	59.6	59.2	73.1	58.2	65.6	88	52	54	53	52	54	53	76	69	59	66	68
July	29.82	30.16	29.46	66.6	69.2	78.6	72.3	62.0	63.2	65.8	64.6	81.0	63.6	72.3	93	56	59	59	58	60	59	78	72	51	67	67
August	29.85	30.17	29.59	69.3	70.5	78.8	72.8	65.9	65.8	68.4	66.7	81.5	66.2	73.8	92	60	64	63	63	64	64	84	79	61	74	74
September	29.89	30.42	29.45	59.3	60.8	70.5	64.6	55.3	56.3	60.1	58.8	73.4	55.6	64.5	96	45	52	53	53	55	53	78	76	56	72	70
October	29.86	30.24	29.07	51.7	50.1	59.3	54.3	47.4	46.3	50.2	48.4	63.1	45.2	54.2	87	31	42	42	40	42	42	72	73	53	65	66
November	29.97	30.42	29.08	38.2	35.2	45.2	41.4	33.6	31.4	37.4	35.3	48.5	33.0	40.8	61	21	26	25	26	26	26	61	64	47	53	56
December	29.65	30.24	29.03	31.7	30.3	36.5	33.5	28.5	27.3	31.6	29.8	40.5	26.4	33.4	57	6	22	21	22	22	22	66	67	55	62	62
Year	29.84	30.50	29.00	46.4	46.6	54.3	50.2	42.8	42.6	46.5	44.9	57.7	42.0	49.8	96	4	38	38	38	39	38	73	71	56	66	66

[1] Airport data, beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,677 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 2,739 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 125 feet.

TABLE 16—*Annual meteorological summaries for the year ended Dec. 31 1939*—Continued

BISMARCK, N. DAK.

Airport [H=1,652 ft.; H_b=1,660 ft.; H_t=4 ft.; H_r=3 ft.; H_a=41 ft.] City [H=1,673 ft.; H_b=1,677 ft.; H_t=8 ft.; H_r=3 ft.; H_a=57 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.32	0.21	2.9	6.1	7.8	NW.	30	NW.	0	8	10	13	6	2	16	6	0	7	0	0	3	19	0	0	31	6	0
February	.63	.28	14.9	4.8	8.9	NW.	30	NW.	0	10	12	6	7	3	17	7	0	1	0	0	0	25	0	0	28	22	0
March	.21	.11	3.8	4.1	8.2	NW.	27	NW.	0	13	13	5	5	3	8	5	0	4	1	0	1	13	0	0	28	6	0
April	.69	.45	.3	4.7	10.6	NW.	34	N.	1	12	10	8	7	3	8	1	0	0	0	0	0	2	0	0	16	0	0
May	1.57	.64	.0	5.5	9.9	NW.	34	NW.	1	10	13	8	11	8	0	0	0	0	0	0	0	0	3	1	0	0	10
June	5.42	1.81	.0	6.6	8.9	NE.	25	W.	0	5	12	13	12	12	0	0	1	1	1	0	0	0	0	0	0	0	8
July	2.52	.90	.0	3.5	8.2	SE.	27	N.	0	15	13	3	7	7	0	0	1	3	0	0	0	0	11	4	0	0	10
August	1.81	.84	.0	4.3	7.5	NW.	27	NW.	0	15	9	7	9	6	0	0	1	4	0	0	2	0	12	3	0	0	6
September	.24	.14	T	4.7	7.8	NW.	28	NW.	0	12	8	10	5	3	1	0	0	5	0	0	0	0	2	0	6	0	1
October	.81	.68	.7	6.8	8.8	NW.	32	NW.	1	2	19	10	6	3	3	2	0	5	0	0	1	1	0	0	13	0	0
November	.01	.01	.1	4.7	7.6	SE.	28	W.	0	12	11	7	1	0	3	1	0	3	0	0	0	1	0	0	29	0	0
December	.26	.13	3.9	6.1	7.4	W.	38	NW.	1	9	9	13	6	3	14	5	0	9	3	1	3	14	0	0	27	4	0
Year	14.49	1.81	26.6	5.2	8.5	NW.	38	NW.	4	123	139	103	82	53	70	27	3	42	5	1	10	75	28	8	178	38	35

BLOCK ISLAND, R. I.

[H=35 ft.; H_b=26 ft.; H_t=11 ft.; H_r=3 ft.; H_a=46 ft.]

January	3.32	1.29	4.9	5.9	19.7	W.	56	NW.	13	11	4	16	14	9	7	7	0	7	0	0	0	8	0	0	20	0	0
February	5.45	1.68	1.5	5.8	18.1	NW.	45	NW.	14	9	8	11	11	9	5	3	0	12	3	0	3	3	0	0	18	0	1
March	4.70	1.15	4.3	5.0	18.0	NW.	44	NW.	13	14	6	11	13	12	7	4	0	12	2	0	3	3	0	0	21	0	2
April	3.99	1.41	T	5.5	16.4	W.	45	W.	5	12	5	13	14	7	3	0	0	12	2	0	1	0	0	0	3	0	1
May	.90	.64	.0	4.5	14.2	SW.	43	NE.	2	13	9	9	9	3	0	0	0	13	6	0	4	0	0	0	0	0	4
June	2.66	2.31	.0	4.5	12.5	S.	26	S.	0	14	8	8	7	5	0	0	0	13	8	2	3	0	0	0	0	0	4
July	.47	.38	.0	3.2	12.7	SW.	42	W.	1	17	12	2	8	1	0	0	0	14	7	2	11	0	0	0	0	0	4
August	5.22	2.44	.0	4.3	12.5	S.	38	NE.	4	16	5	10	9	7	0	0	0	13	4	2	3	0	0	0	0	0	4
September	.92	.24	.0	4.0	14.2	S.	33	SW.	4	15	6	9	6	5	0	0	1	6	1	0	0	0	0	0	0	0	2
October	4.27	2.71	.0	4.8	17.3	SW.	45	NW.	14	13	7	11	11	7	0	0	0	8	4	0	4	0	0	0	0	0	1
November	.92	.90	T	3.6	20.1	NW.	56	W.	13	18	5	7	2	1	1	0	0	0	0	0	0	0	0	0	5	0	0
December	1.60	.69	3.0	5.2	19.3	NW.	56	NW.	14	11	8	12	6	5	7	2	0	5	0	0	2	4	0	0	19	0	0
Year	34.42	2.71	13.7	4.7	16.2	SW.	56	NW.	97	163	83	119	110	71	30	16	1	115	37	6	34	18	0	0	86	0	23

BOISE, IDAHO

Airport [H=2,842 ft.; H_b=2,858 ft.; H_t=5 ft.; H_r=3 ft.; H_a=49 ft.] City [H=2,713 ft.; H_b=2,739 ft.; H_t=79 ft.; H_r=72 ft.; H_a=87 ft.]

January	1.19	0.52	5.0	7.6	5.5	SE.	26	SE.	0	5	5	21	9	7	8	5	0	11	6	5	4	3	0	0	27	0	0
February	1.38	.44	13.9	6.8	6.7	SE.	22	NW.	0	7	6	15	11	6	15	10	0	1	1	0	0	4	0	0	26	0	0
March	.76	.22	3.6	5.6	5.9	SE.	23	NW.	0	10	7	14	9	5	7	5	0	1	0	0	0	0	0	0	11	0	0
April	.36	.16	T	5.3	6.5	SE.	25	SE.	0	8	13	9	3	3	1	0	0	0	0	0	0	0	0	0	5	0	1
May	.11	.07	.0	4.7	6.1	NW.	21	NW.	0	11	13	7	3	1	0	0	2	1	0	0	0	0	2	0	0	0	3
June	.38	.26	.0	4.9	6.1	NW.	24	S.	0	11	11	8	6	2	0	0	0	0	0	0	0	0	4	2	0	0	1
July	.15	.13	.0	2.9	5.6	NW.	26	NE.	0	21	5	5	2	1	0	0	0	0	0	0	0	0	19	12	0	0	4
August	T	T	.0	3.0	5.2	SE.	21	NW.	0	21	6	4	0	0	0	0	0	0	0	0	0	0	17	7	0	0	4
September	1.53	1.19	.0	2.9	4.8	NW.	15	W.	0	19	6	5	3	2	0	0	2	1	1	1	0	0	1	0	0	0	2
October	.70	.28	T	5.4	4.4	SE.	18	NW.	0	10	10	11	8	5	2	1	0	0	0	0	0	0	0	0	1	0	0
November	.13	.13	.0	4.5	3.6	SE.	18	SE.	0	14	7	9	1	1	0	0	0	3	2	0	2	0	0	0	20	0	0
December	1.39	.29	1.5	7.9	5.1	SE.	25	SE.	0	3	7	21	17	11	6	3	1	5	0	0	0	1	0	0	16	0	0
Year	8.08	1.19	24.0	5.1	5.5	SE.	26	NE.	0	140	96	129	72	44	39	24	5	22	10	6	6	8	43	21	106	1	15

BOSTON, MASS. (Airport)

[H=12 ft.; H_b=29 ft.; H_t=33 ft.; H_r=3 ft.; H_a=62 ft.]

January	2.18	1.06	7.5	7.3	12.7	NW.	43	NE.	5	4	8	19	12	6	12	11	0	10	2	0	1	12	0	0	26	0	1
February	3.79	.81	4.7	7.2	11.9	W.	47	SW.	2	7	4	17	13	12	12	4	0	14	6	5	3	5	0	0	23	0	1
March	5.23	1.77	16.5	6.5	12.6	NW.	42	NE.	3	9	5	17	15	12	9	6	0	11	6	6	3	5	0	0	22	0	0
April	4.54	1.25	.2	7.7	11.4	W.	34	E.	1	2	8	20	14	11	5	1	0	9	5	5	3	0	0	0	7	0	2
May	1.29	.56	.0	6.6	10.7	E.	28	NE.	0	5	14	12	6	4	0	0	0	7	1	1	1	0	1	0	0	0	2
June	2.70	.70	.0	6.0	11.0	S.	28	S.	0	6	14	10	10	9	0	0	0	11	0	0	0	0	0	0	0	0	3
July	.75	.37	.0	6.3	9.7	SW.	25	W.	0	2	21	8	4	4	0	0	0	10	5	6	5	0	5	0	0	0	3
August	2.14	.56	.0	6.3	10.0	S.	32	NE.	1	6	14	11	9	7	0	0	0	14	6	6	3	0	2	0	0	0	4
September	1.01	.33	.0	5.2	10.8	SW.	34	SW.	1	10	8	12	7	7	0	0	0	5	1	1	1	0	2	1	0	0	3
October	4.77	3.17	.0	5.9	11.5	NW.	37	NE.	1	9	8	14	12	11	0	0	0	10	3	1	2	0	0	0	3	0	1
November	1.14	1.01	1.0	4.8	12.8	W.	56	NE.	4	13	9	8	2	2	4	1	0	3	0	0	0	0	0	0	14	0	0
December	2.91	1.03	6.5	6.7	12.4	W.	41	NW.	1	7	6	18	8	7	8	4	0	10	2	1	1	7	0	0	20	0	0
Year	32.45	3.17	36.4	6.4	11.4	W.	56	NE.	19	80	119	166	112	92	50	27	0	114	37	32	23	29	10	1	115	0	20

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BROWNSVILLE, TEX.

Airport [ϕ=25°55′ N.; λ=97°28′ W.] City [ϕ=25°54′ N.; λ=97°30′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.96	30.49	29.48	----	59.4	68.6	65.6	----	57.3	60.1	59.8	71.9	56.9	64.4	82	46	----	56	54	56	56	----	88	63	72	80
February	29.89	30.50	29.40	----	59.0	69.0	65.9	----	55.3	59.9	58.7	72.9	54.4	63.6	85	39	----	52	53	53	52	----	79	58	66	72
March	29.93	30.31	29.57	----	64.7	75.4	71.2	----	62.5	65.4	64.6	77.6	61.9	69.8	90	49	----	61	59	60	61	----	88	59	70	79
April	29.86	30.31	29.53	----	67.1	78.5	74.5	----	64.6	66.7	66.8	81.3	65.2	73.2	93	41	----	63	59	62	62	----	87	55	67	77
May	29.80	30.04	29.50	----	73.5	83.7	79.8	----	71.8	73.9	73.3	86.1	72.4	79.2	94	66	----	71	69	70	71	----	92	63	74	83
June	29.82	29.99	29.58	----	75.7	85.1	82.1	----	74.1	75.4	75.5	87.4	74.4	80.9	91	66	----	74	71	73	73	----	93	64	74	83
July	29.88	30.03	29.69	78.8	76.2	90.6	86.0	76.2	74.7	77.1	76.7	90.7	76.9	83.8	102	74	75	74	72	73	74	----	94	54	66	80
August	29.86	30.00	29.71	77.0	74.5	89.5	85.1	75.0	73.3	76.8	76.4	90.6	75.6	83.1	94	72	74	73	72	73	73	----	95	56	67	81
September	29.87	30.03	29.71	75.2	72.5	86.5	81.3	73.5	71.5	75.5	74.6	87.7	72.8	80.2	94	65	73	71	71	72	72	----	96	61	74	85
October	29.94	30.27	29.74	70.9	67.9	82.2	76.1	68.1	65.6	70.9	69.9	83.2	68.0	75.6	89	44	66	64	65	67	65	----	88	57	73	81
November	30.11	30.47	29.89	58.5	56.0	71.9	65.8	55.5	53.6	61.2	59.7	73.3	56.7	65.0	82	46	53	52	54	56	54	----	86	55	70	78
December	30.00	30.33	29.68	58.3	55.9	72.4	65.1	56.5	54.5	61.8	59.7	74.1	55.2	64.6	85	34	55	53	55	56	54	----	91	55	73	82
Year	29.91	30.50	29.40	----	66.9	79.4	74.9	----	64.9	68.7	68.0	81.4	65.9	73.6	102	34	----	64	63	64	64	----	90	58	70	80

BUFFALO, N. Y.

Airport [ϕ=42°56′ N.; λ=78°44′ W.] City [ϕ=42°53′ N.; λ=78°53′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.14	29.54	28.51	24.3	24.1	26.3	25.7	22.8	22.8	24.4	23.9	33.1	19.5	26.3	55	−1	20	20	21	20	20	84	85	79	80	82
February	29.18	29.78	28.58	24.5	25.9	28.9	27.8	22.9	23.9	26.7	25.6	34.6	20.1	27.4	54	0	20	20	22	21	21	81	79	76	75	78
March	29.20	29.74	28.59	28.0	28.1	32.1	30.1	26.2	26.2	29.1	27.6	36.9	23.7	30.3	60	5	23	23	24	23	23	80	79	71	74	76
April	29.08	29.54	28.59	36.9	36.3	40.4	39.0	34.9	34.2	36.8	36.0	45.3	32.7	39.0	71	23	32	31	32	32	32	82	82	74	76	78
May	29.14	29.47	28.58	51.1	52.4	56.6	57.3	47.2	47.9	50.4	50.9	63.6	47.6	55.6	83	36	43	43	44	45	44	76	72	66	65	70
June	29.14	29.40	28.80	60.4	63.6	67.4	67.7	57.3	58.8	61.0	61.2	72.7	58.7	65.7	86	49	55	56	57	57	56	84	76	71	70	75
July	29.15	29.40	28.75	64.4	67.0	78.6	74.8	59.9	61.7	64.8	63.6	77.5	63.5	70.5	91	50	57	58	56	56	57	77	74	49	55	64
August	29.16	29.45	28.89	65.1	66.1	79.8	73.7	61.8	62.3	66.6	65.2	78.8	65.3	72.0	88	59	60	60	59	60	60	84	81	51	64	70
September	29.20	29.68	28.84	57.4	58.2	69.1	63.1	54.1	54.7	59.5	57.8	70.2	55.3	62.8	89	42	52	52	53	54	53	82	82	59	74	74
October	29.18	29.63	28.65	47.9	46.8	56.6	51.1	44.7	43.7	49.0	47.2	59.2	44.9	52.0	74	31	41	40	42	43	42	79	80	59	75	73
November	29.37	29.81	28.85	34.2	32.5	41.7	36.4	32.1	30.7	36.3	33.7	43.3	32.6	38.0	64	24	29	28	29	30	29	81	83	61	76	75
December	29.02	29.56	28.51	30.7	29.4	33.9	31.2	29.0	27.9	30.9	29.3	37.7	26.9	32.3	56	8	26	26	26	26	26	84	84	72	80	80
Year	29.16	29.81	28.51	43.7	44.2	51.0	48.2	41.1	41.2	44.6	43.5	54.4	40.9	47.7	91	−1	38	38	39	39	39	81	80	66	72	75

BURLINGTON, VT.

[ϕ=44°29′ N.; λ=73°12′ W.]

January	29.54	30.10	28.71	16.0	14.8	21.3	18.1	14.6	13.5	19.0	16.4	25.2	8.4	16.8	49	−20	11	10	13	12	12	79	78	69	75	75
February	29.59	30.24	28.81	17.6	16.8	23.1	20.2	16.4	15.4	20.9	18.7	30.7	9.2	20.0	51	−11	13	11	16	15	14	81	78	72	78	77
March	29.60	30.12	28.89	22.1	20.5	29.2	25.3	20.8	19.1	26.1	23.3	32.6	15.3	24.0	52	−7	17	15	20	19	18	80	79	65	75	75
April	29.46	30.03	29.07	34.6	35.3	42.9	39.1	32.8	33.4	38.1	35.3	45.2	30.7	38.0	60	20	30	30	31	30	30	82	82	66	70	75
May	29.50	29.86	28.88	49.7	51.6	62.5	57.4	45.6	46.8	40.7	50.2	65.5	44.1	54.8	82	31	41	41	42	43	42	74	69	50	60	63
June	29.52	29.82	29.12	58.3	60.6	70.9	66.4	54.8	56.2	60.6	59.0	73.2	53.7	63.4	87	42	52	53	53	54	53	81	77	56	65	70
July	29.50	29.84	29.07	64.3	67.1	76.7	71.4	60.5	62.6	64.7	63.7	79.2	60.0	69.6	94	46	58	60	58	59	59	81	78	53	66	70
August	29.53	29.83	29.21	64.7	67.0	79.0	71.8	61.6	63.1	67.4	65.0	81.1	60.4	70.8	89	52	60	61	61	61	61	84	81	55	70	72
September	29.57	30.09	29.13	56.0	55.5	65.4	60.4	52.2	52.0	56.5	54.2	69.7	48.7	59.2	92	31	49	49	50	49	49	80	80	59	68	72
October	29.54	29.97	28.87	45.7	44.5	53.4	48.5	42.6	41.7	46.4	44.3	56.4	38.7	47.6	77	23	38	38	39	39	38	76	78	59	71	71
November	29.70	30.13	29.02	30.0	27.9	37.2	33.2	27.5	25.7	32.6	29.9	39.4	24.8	32.1	51	11	23	22	25	24	24	74	77	61	69	70
December	29.35	29.98	28.71	23.4	22.0	26.2	24.3	21.7	20.4	24.0	22.6	29.7	17.0	23.4	47	−9	18	17	19	18	18	79	79	72	76	76
Year	29.53	30.24	28.71	40.2	40.3	49.0	44.7	37.6	37.5	41.4	40.2	52.3	34.2	43.3	94	−20	34	34	36	35	35	79	78	61	70	72

CAIRO, ILL.

[ϕ=37°00′ N.; λ=89°10′ W.]

January	29.66	30.10	28.85	----	38.4	----	45.6	----	35.7	----	40.3	50.8	35.6	43.2	68	23	----	32	----	33	32	----	77	----	64	71
February	29.69	30.18	29.07	----	34.8	----	40.4	----	32.7	----	36.8	47.6	30.1	38.8	71	15	----	29	----	31	30	----	81	----	71	76
March	29.69	30.09	28.95	----	44.8	----	55.9	----	41.3	----	47.9	60.5	42.9	51.7	82	29	----	37	----	39	38	----	75	----	57	66
April	29.61	30.20	29.09	----	49.9	----	60.7	----	46.4	----	51.3	64.0	47.6	55.8	79	30	----	42	----	42	42	----	76	----	52	64
May	29.58	29.88	29.07	----	62.5	----	73.0	----	59.1	----	62.4	77.5	60.6	69.0	88	48	----	56	----	55	56	----	81	----	56	69
June	29.58	29.88	29.25	----	71.2	----	79.9	----	68.5	----	71.5	84.2	68.6	76.4	90	60	----	67	----	68	67	----	87	----	67	77
July	29.59	29.84	29.47	----	74.1	----	85.4	----	70.6	----	74.1	89.2	71.5	80.4	99	65	----	69	----	69	69	----	84	----	59	72
August	29.58	29.77	29.34	----	70.4	82.7	82.2	----	67.6	71.1	72.5	86.7	68.9	77.8	93	61	----	66	65	68	67	----	86	57	63	75
September	29.63	29.88	29.38	----	68.1	84.3	81.8	----	62.7	68.0	68.0	88.4	66.4	77.4	99	49	----	59	58	60	60	----	74	44	49	62
October	29.69	30.12	29.37	----	54.9	69.8	66.6	----	51.6	57.6	57.0	73.9	52.7	63.3	87	34	----	49	47	49	49	----	80	47	54	67
November	29.90	30.29	29.48	----	40.0	51.3	50.1	----	37.2	43.2	42.7	55.3	38.0	46.6	73	29	----	34	33	34	34	----	79	53	56	67
December	29.65	30.00	29.21	----	36.3	44.9	44.3	----	33.8	38.9	39.0	49.6	33.8	41.7	71	11	----	30	31	32	31	----	78	60	65	71
Year	29.65	30.29	28.85	----	53.8	----	63.8	----	50.6	----	55.3	69.0	51.4	60.2	99	11	----	48	----	48	48	----	80	----	59	70

[1] Airport data beginning with July.

[2] Pressure at airport adjusted to the old (city) station elevation of 57 feet.

[3] Pressure at airport adjusted to the old (city) station elevation of 768 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BROWNSVILLE, TEX.

Airport [H=16 ft.; H_b=20 ft.; H_t=19 ft.; H_r=18 ft.; H_a=34 ft.] City [H=35 ft.; H_b=57 ft.; H_t=88 ft.; H_r=80 ft.; H_a=96 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind				Number of days—																
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	1.55	0.61	0.0	5.9	11.9	SE.	30	NW.	0	9	10	12	9	5	0	0	0	1	1	1	1	0	0	0	0	0	0
February	.28	.15	.0	6.5	13.5	SE.	39	S.	2	4	11	13	4	3	0	0	0	3	1	0	0	0	0	0	0	0	0
March	.22	.09	.0	5.2	12.3	SE.	35	SE.	2	8	16	7	5	2	0	0	0	4	1	1	1	0	1	0	0	0	0
April	4.09	3.51	.0	5.3	12.7	SE.	32	S.	3	6	19	5	3	2	0	0	0	4	1	1	1	0	1	0	0	0	2
May	6.20	4.84	.0	4.8	10.2	SE.	31	N.	0	9	15	7	8	6	0	0	0	3	2	1	1	0	3	0	0	0	8
June	6.29	3.14	.0	4.2	11.3	SE.	33	NE.	1	13	13	4	5	4	0	0	1	0	0	0	0	0	6	0	0	0	4
July	1.11	.90	.0	3.9	11.3	SE.	28	SE.	0	15	13	3	4	3	0	0	0	0	0	0	0	0	21	2	0	0	2
August	1.92	1.08	.0	5.5	9.3	SE.	25	S.	0	4	22	5	9	8	0	0	0	1	1	0	0	0	22	0	0	0	9
September	3.62	1.67	.0	4.7	9.8	SE.	28	NE.	0	13	9	8	10	7	0	0	0	0	0	0	0	0	9	0	0	0	3
October	.50	.29	.0	4.5	10.5	SE.	32	NW.	1	13	10	8	4	2	0	0	0	2	0	0	0	0	0	0	0	0	1
November	.33	.22	.0	5.8	10.1	NW.	23	NW.	0	7	15	8	5	2	0	0	0	1	1	0	0	0	0	0	0	0	0
December	.42	.33	.0	5.1	10.0	S.	33	S.	1	8	15	8	5	3	0	0	0	9	5	5	3	0	0	0	0	0	0
Year	26.53	4.84	.0	5.1	11.0	SE.	39	S.	10	109	168	88	71	47	0	0	1	28	13	9	7	0	63	2	0	0	29

BUFFALO, N. Y.

Airport [H=693 ft.; H_b=711 ft.; H_t=34 ft.; H_r=31 ft.; H_a=96 ft.] City [H=603 ft.; H_b=768 ft.; H_t=243 ft.; H_r=238 ft.; H_a=280 ft.]

January	2.90	0.89	29.4	9.1	18.5	W.	61	W.	15	0	3	28	23	16	24	19	0	8	2	0	1	17	0	0	26	2	0
February	3.50	.94	15.3	7.5	19.1	W.	59	SW.	16	3	9	16	17	16	17	12	0	3	0	0	1	11	0	0	26	0	0
March	2.94	.86	10.2	7.3	15.9	W.	66	SW.	8	3	11	17	20	11	18	13	0	9	1	1	4	10	0	0	26	0	0
April	2.46	.72	3.4	7.8	16.0	SW.	49	SW.	11	2	6	22	17	13	12	8	1	7	5	0	4	1	0	0	15	0	2
May	1.97	.82	.0	4.9	12.7	SW.	45	SW.	6	10	13	8	5	5	0	0	0	5	3	0	1	0	0	0	0	0	3
June	1.75	.73	.0	5.7	13.7	SW.	47	W.	8	8	13	9	10	9	0	0	0	3	1	0	1	0	0	0	0	0	6
July	1.51	.83	.0	4.1	12.0	SW.	33	SW.	6	13	14	4	5	4	0	0	0	1	0	0	0	0	1	0	0	0	2
August	3.79	2.53	.0	3.8	12.1	SW.	47	W.	8	15	13	3	9	7	0	0	0	1	0	0	0	0	0	0	0	0	5
September	3.12	1.32	.0	6.2	12.6	S.	52	NW.	6	5	11	14	14	12	0	0	1	3	0	0	1	0	0	0	0	0	6
October	1.83	.65	T	5.9	16.0	SW.	49	NW.	12	10	8	13	12	8	4	0	2	3	0	0	0	0	0	0	3	0	6
November	.53	.22	.5	6.8	14.9	W.	49	W.	5	6	8	16	6	4	7	2	0	1	0	0	0	0	0	0	17	0	0
December	3.00	.88	8.7	8.3	18.2	W.	54	SW.	13	1	8	22	15	13	15	7	0	1	1	0	0	11	0	0	21	0	0
Year	29.30	2.53	67.5	6.4	15.1	SW.	66	SW.	114	76	117	172	153	118	97	61	4	45	13	1	13	50	1	0	134	2	30

BURLINGTON, VT.

[H=398 ft.; H_b=403 ft. H_t=11 ft.; H_r=3 ft.; H_a=48 ft.]

January	1.29	0.60	14.5	7.7	10.8	N.	34	S.	4	6	3	22	13	7	19	11	0	6	0	0	0	20	0	0	28	8	0
February	3.08	1.27	17.0	7.2	11.4	S.	38	S.	2	5	6	17	11	8	19	10	0	12	2	0	0	15	0	0	28	4	0
March	2.24	.67	11.9	6.9	9.7	S.	31	W.	0	6	7	18	15	11	23	9	0	10	0	0	3	15	0	0	29	3	1
April	4.21	1.23	16.2	7.5	8.9	S.	32	S.	1	3	10	17	17	17	12	9	0	17	1	0	6	0	0	0	20	0	0
May	3.38	1.04	.0	5.8	8.7	S.	29	S.	0	9	10	12	12	11	0	0	0	4	0	0	1	0	0	0	1	0	5
June	5.35	1.32	.0	6.0	8.3	S.	26	S.	0	8	8	14	12	10	0	0	0	9	0	0	0	0	0	0	0	0	4
July	2.83	1.22	.0	5.4	7.2	S.	26	S.	0	9	11	11	10	9	0	0	0	5	0	0	0	0	1	0	0	0	9
August	2.78	1.70	.0	4.9	6.7	S.	26	S.	0	11	13	7	7	5	0	0	0	8	0	0	0	0	0	0	0	0	8
September	3.77	.85	T	5.7	8.6	S.	31	S.	0	9	9	12	13	11	1	1	0	9	2	1	1	0	1	0	1	0	3
October	2.19	1.00	T	7.0	10.2	S.	34	S.	2	5	7	19	11	7	3	0	0	6	0	0	1	0	0	0	11	0	2
November	.92	.70	1.4	6.7	8.0	NW.	32	S.	1	5	8	17	5	4	9	2	0	3	0	0	0	4	0	0	23	0	0
December	1.75	.67	6.6	8.4	10.4	S.	34	S.	1	4	2	25	13	9	20	9	0	10	5	1	1	16	0	0	26	4	0
Year	33.79	1.70	67.6	6.6	9.1	S.	38	S.	11	80	94	191	139	109	106	51	0	99	10	2	13	70	2	0	167	19	32

CAIRO, ILL.

[H=315 ft.; H_b=358 ft.; H_t=87 ft.; H_r=80 ft.; H_a=93 ft.]

January	4.15	2.32	2.1	7.0	10.2	S.	29	SW.	0	6	5	20	10	9	7	3	0	1	0	0	0	0	0	0	13	0	0
February	7.70	1.85	12.0	6.6	10.9	S.	34	SW.	2	7	5	16	13	13	8	5	1	5	3	2	2	3	0	0	17	0	4
March	4.78	3.19	T	5.9	10.1	S.	32	SW.	1	10	6	15	11	8	1	0	0	1	1	0	0	0	0	0	5	0	6
April	4.95	2.13	.0	6.3	10.0	S.	35	N.	2	6	8	16	14	7	0	0	0	0	0	0	0	0	0	0	2	0	9
May	3.62	2.16	.0	6.3	7.4	S.	27	S.	0	7	9	15	11	8	0	0	0	1	1	0	0	0	0	0	0	0	12
June	2.56	.65	.0	7.1	7.0	S.	32	SW.	1	3	11	16	13	11	0	0	0	2	1	0	0	0	1	0	0	0	13
July	1.36	.91	.0	5.4	6.4	N.	39	N.	2	6	19	6	7	5	0	0	0	1	0	0	0	0	12	5	0	0	8
August	1.22	.59	.0	4.7	5.9	S.	23	N.	0	14	7	10	8	4	0	0	0	1	0	0	0	0	7	0	0	0	10
September	1.20	1.19	.0	2.1	6.8	S.	20	N.	0	21	8	1	2	2	0	0	0	0	0	0	0	0	16	5	0	0	1
October	1.47	.67	T	3.3	8.4	S.	24	NW.	0	18	10	3	7	5	1	0	0	0	0	0	0	0	0	0	0	0	4
November	2.22	.94	.0	6.1	7.4	N.	21	N.	0	8	6	16	6	6	0	0	0	4	4	4	3	0	0	0	4	0	0
December	1.75	.94	1.9	6.2	9.0	SW.	25	NE.	0	9	6	16	6	5	6	3	0	1	1	1	1	3	0	0	13	0	0
Year	36.98	3.19	16.0	5.6	8.3	S.	39	N.	8	115	100	150	108	83	23	11	1	17	11	7	6	6	36	10	54	0	67

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CANTON, N. Y.

[ϕ=44°36′ N.; λ=75°10′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.51	29.99	28.69	15.7	14.4	20.9	18.0	14.6	13.4	18.8	16.3	26.2	6.5	16.4	51	−26	12	11	14	13	12	86	86	72	81	81
February	29.54	30.15	28.93	16.6	14.6	21.0	20.3	15.8	13.7	19.4	18.9	29.2	7.6	18.4	46	−13	14	11	16	16	14	88	87	80	82	84
March	29.56	30.08	28.88	22.1	21.6	28.6	25.2	21.1	20.1	25.2	23.1	32.8	14.0	23.4	55	− 9	19	17	18	18	18	87	81	61	75	76
April	29.42	29.95	29.05	34.7	35.4	43.5	39.6	33.4	33.4	38.1	36.5	46.6	29.8	38.2	62	21	32	30	31	32	31	88	81	63	77	77
May	29.46	29.81	28.84	48.8	52.8	64.8	59.1	45.3	47.6	53.3	51.3	67.3	44.2	55.8	87	29	41	42	42	44	42	77	68	46	59	62
June	29.47	29.76	29.08	58.4	62.4	72.1	67.2	54.7	56.6	60.7	59.6	75.0	53.2	64.1	87	40	52	52	53	54	53	81	70	52	65	67
July	29.46	29.78	28.98	62.7	67.6	77.1	72.1	59.0	61.5	64.9	63.4	80.9	58.0	69.4	95	46	56	58	57	58	57	81	71	53	63	67
August	29.48	29.78	29.15	63.8	68.0	79.6	72.4	60.7	62.8	67.2	64.9	81.6	58.3	70.0	90	49	59	60	60	60	60	85	76	53	67	70
September	29.53	30.06	29.10	54.2	55.2	66.9	58.9	51.4	51.6	56.9	54.5	70.9	46.8	58.8	90	31	49	49	49	51	50	85	80	55	76	74
October	29.50	29.96	28.88	43.9	43.2	53.3	47.2	41.3	40.4	46.7	43.8	57.6	36.4	47.0	77	20	38	37	40	40	39	81	79	61	75	74
November	29.68	30.09	29.10	28.3	26.6	37.7	32.3	26.9	26.6	32.9	29.5	39.2	23.1	31.2	60	7	24	23	25	25	24	85	85	59	73	76
December	29.34	29.95	28.71	22.2	21.9	26.8	23.0	21.4	20.9	24.8	22.0	29.6	15.3	22.4	50	−17	20	19	20	20	20	90	88	76	87	85
Year	29.50	30.15	28.69	39.3	40.3	49.4	44.6	37.1	37.4	42.4	40.3	53.1	32.8	42.9	95	−26	35	34	35	36	35	84	79	61	73	74

CAPE HENRY, VA.

[ϕ=36°56′ N.; λ=76°00′ W.]

January	30.04	30.51	29.35	----	41.3	----	45.1	----	38.8	----	41.3	51.6	37.7	44.6	71	26	----	36	----	37	36	----	80	----	74	77
February	30.12	30.62	29.53	----	44.7	----	48.2	----	42.9	----	45.5	57.0	39.1	48.0	76	25	----	41	----	42	42	----	86	----	81	84
March	30.06	30.59	29.38	----	47.4	----	51.7	----	45.3	----	47.0	60.1	42.8	51.4	86	32	----	43	----	42	43	----	86	----	72	79
April	29.96	30.41	29.54	----	54.3	----	58.5	----	51.3	----	53.1	66.0	48.6	57.3	87	38	----	49	----	48	49	----	82	----	72	77
May	29.98	30.25	29.57	----	64.1	----	66.3	----	60.2	----	61.0	74.0	58.1	66.0	93	43	----	58	----	58	58	----	80	----	75	78
June	29.97	30.23	29.68	----	74.5	----	75.4	----	70.0	----	69.9	81.9	67.9	74.9	93	61	----	68	----	67	68	----	80	----	77	79
July	29.96	30.17	29.66	----	74.5	----	75.5	----	70.4	----	70.6	82.1	69.5	75.8	91	62	----	68	----	68	68	----	82	----	79	81
August	29.94	30.23	29.69	----	76.6	----	77.2	----	73.2	----	73.0	85.3	71.7	78.5	95	65	----	72	----	71	71	----	85	----	82	84
September	30.02	30.41	29.70	----	71.3	----	73.3	----	67.7	----	68.4	79.8	67.7	73.8	97	56	----	66	----	66	66	----	84	----	78	81
October	30.03	30.49	29.49	----	61.4	----	63.5	----	58.2	----	59.0	72.2	57.7	65.0	93	45	----	56	----	56	56	----	82	----	77	80
November	30.16	30.50	29.75	----	46.9	----	50.0	----	43.4	----	44.8	56.0	42.8	49.4	72	35	----	39	----	39	39	----	76	----	68	72
December	29.93	30.49	29.51	----	39.8	----	44.1	----	37.2	----	39.6	50.6	36.7	43.6	69	22	----	34	----	34	34	----	78	----	68	73
Year	30.01	30.62	29.35	----	58.1	----	60.7	----	54.9	----	56.1	68.0	53.4	60.7	97	22	----	52	----	52	52	----	82	----	75	79

CHARLES CITY, IOWA

[ϕ=43°04′ N.; λ=92°38′ W.]

January	28.85	29.34	28.34	22.2	21.0	28.1	26.4	21.4	20.1	25.9	24.9	31.5	16.0	23.8	50	−6	20	18	22	22	20	89	87	75	83	84
February	28.92	29.40	28.14	14.0	10.7	21.7	20.6	12.9	9.8	19.1	18.5	26.4	5.7	16.0	45	−12	10	7	12	13	10	81	83	65	72	75
March	28.95	29.36	28.44	28.7	25.0	39.3	37.5	26.9	23.8	34.0	33.3	43.1	22.1	32.6	79	0	24	22	27	28	25	82	86	61	68	74
April	28.86	29.32	28.39	39.3	37.3	51.2	50.3	36.2	34.7	42.1	41.8	55.7	34.4	45.0	90	19	33	31	32	32	32	77	79	50	52	65
May	28.84	29.28	28.47	57.8	55.2	74.2	72.1	52.3	50.6	58.7	58.1	78.4	51.6	65.0	93	35	47	46	46	46	46	69	73	39	43	56
June	28.83	29.17	28.42	64.3	64.3	77.1	74.9	61.3	61.2	65.6	65.1	80.0	59.8	69.9	93	48	59	59	59	60	59	84	84	56	61	71
July	28.90	29.14	28.56	67.7	66.3	82.1	81.5	64.6	63.1	68.3	68.3	85.7	62.9	74.3	98	53	63	61	61	61	62	85	84	51	52	68
August	28.90	29.22	28.58	63.5	61.5	77.6	74.5	61.2	59.4	65.1	64.9	80.4	58.2	69.3	90	48	60	58	58	60	59	88	89	54	62	73
September	28.92	29.32	28.46	60.3	55.9	75.6	70.5	55.1	52.3	59.4	58.4	78.9	52.7	65.8	100	29	51	49	48	50	50	74	80	40	51	61
October	28.88	29.47	28.51	45.2	42.2	57.5	53.6	41.4	39.2	47.2	45.8	61.3	38.5	49.9	80	24	37	35	36	37	36	74	78	48	56	64
November	29.15	29.67	28.57	32.4	28.6	47.4	40.0	29.8	26.7	39.0	35.1	49.9	26.2	38.0	70	16	26	23	28	28	26	76	81	48	62	66
December	28.87	29.34	28.43	26.4	25.0	35.7	31.0	24.6	23.3	30.4	27.5	38.8	19.7	29.2	61	−1	21	20	22	22	21	81	81	58	69	72
Year	28.91	29.67	28.14	43.5	41.1	55.6	52.7	40.6	38.7	46.2	45.1	59.2	37.3	48.2	100	−12	38	36	38	38	37	80	82	54	61	69

CHARLESTON, S. C.

Airport [ϕ=32°47′ N.; λ=80°02′ W.] City [ϕ=32°47′ N.; λ=79°56′ W.]

	(1)	(1)	(1)	----	(1)	----	(1)	----	(1)	----	(1)						----	(1)	----	(1)	(1)	----	(1)	----	(1)	(1)
January	30.07	30.41	29.59	----	47.7	----	54.3	----	45.2	----	50.0	61.6	44.1	52.8	76	36	----	42	----	45	44	----	81	----	74	77
February	30.11	30.50	29.65	----	53.1	----	57.4	----	51.0	----	54.6	65.6	50.1	57.8	76	28	----	49	----	52	50	----	85	----	82	83
March	30.07	30.50	29.55	----	56.1	----	61.6	----	52.9	----	56.3	69.5	53.5	61.5	83	36	----	50	----	52	51	----	81	----	72	77
April	29.99	30.45	29.61	----	62.0	----	66.3	----	56.7	----	60.3	73.7	58.2	66.0	90	46	----	52	----	56	54	----	72	----	71	71
May	29.99	30.21	29.74	----	70.5	----	71.9	----	65.6	----	66.0	79.2	65.4	72.3	88	46	----	63	----	62	63	----	77	----	73	75
June	29.98	30.13	29.78	----	79.9	----	81.4	----	75.3	----	75.8	88.2	75.5	81.8	97	70	----	73	----	74	74	----	81	----	78	79
July	29.95	30.11	29.67	----	75.4	----	79.4	----	73.6	----	75.3	88.5	75.2	81.8	94	69	----	73	----	74	73	----	92	----	83	88
August	29.94	30.13	29.73	----	73.4	----	76.3	----	72.4	----	73.1	87.1	73.3	80.2	93	64	----	72	----	72	72	----	95	----	86	91
September	29.97	30.21	29.76	----	71.3	----	75.5	----	69.6	----	72.0	85.4	72.9	79.2	97	65	----	69	----	70	70	----	92	----	85	88
October	30.02	30.28	29.61	----	58.3	----	65.6	----	56.9	----	62.3	77.5	61.4	69.4	87	48	----	56	----	60	58	----	91	----	83	87
November	30.16	30.49	29.74	----	40.7	----	49.8	----	39.4	----	46.6	63.2	46.7	55.0	77	34	----	38	----	43	41	----	90	----	79	84
December	29.99	30.43	29.58	----	46.8	----	51.7	----	43.7	----	47.4	59.5	43.3	51.4	70	33	----	40	----	43	41	----	77	----	73	75
Year	30.02	30.50	29.55	----	61.3	----	65.9	----	58.5	----	61.6	74.9	60.0	67.4	97	28	----	56	----	59	58	----	84	----	78	81

[1] Airport data from July 1 to November 30.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CANTON, N. Y.

[H=406 ft.; H_b=448 ft.; H_t=10 ft.; H_r=4 ft.; H_a=61 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	2.05	0.75	15.4	7.1	10.3	W.	32	W.	1	7	5	19	13	9	18	9	0	0	0	0	0	20	0	0	28	9	0
February	3.24	.97	16.7	7.4	11.6	W.	39	W.	3	6	3	19	15	10	22	11	0	3	0	0	0	15	0	0	28	5	2
March	2.42	.65	17.3	7.1	10.0	W.	38	W.	2	7	7	17	15	10	20	9	0	2	2	1	1	16	0	0	30	5	1
April	2.55	.45	6.2	7.5	9.5	W.	33	SW.	1	4	9	17	21	17	13	8	0	7	3	2	2	2	0	0	22	0	1
May	2.56	.91	.0	6.1	8.1	W.	35	W.	2	6	14	11	9	7	0	0	0	5	3	2	1	0	0	0	2	0	4
June	2.39	.76	.0	5.8	8.0	W.	32	W.	1	8	11	11	12	8	0	0	0	3	1	1	1	0	0	0	0	0	2
July	3.40	1.68	.0	5.5	6.4	SW.	25	SW.	0	9	14	8	14	9	0	0	1	5	0	0	0	0	4	0	0	0	8
August	1.74	.73	.0	4.4	6.4	W.	29	W.	0	11	16	4	11	10	0	0	0	2	1	1	1	0	1	0	0	0	7
September	5.11	1.23	1.8	5.3	6.8	SW.	30	SW.	0	8	15	7	12	11	1	1	0	5	2	2	0	0	1	0	3	0	6
October	2.42	.56	T	6.9	8.6	W.	30	W.	0	6	7	18	13	9	5	1	0	2	0	0	0	0	0	0	9	0	3
November	1.06	.65	6.7	5.6	8.6	W.	30	W.	0	11	7	12	7	6	8	5	0	3	0	0	0	3	0	0	25	0	0
December	3.47	1.29	12.3	8.3	8.9	SW.	27	W.	0	3	4	24	20	14	24	16	0	7	0	0	0	18	0	0	28	6	0
Year	32.41	1.68	76.4	6.4	8.6	W.	39	W.	10	86	112	167	162	120	111	60	1	44	12	9	6	74	6	0	175	25	34

CAPE HENRY, VA.

[H=16 ft. ;H_b=18 ft.; H_t=8 ft.; H_r=3 ft.; H_a=54 ft.]

January	4.58	1.45	0.5	5.4	12.7	NW.	40	NW.	5	11	9	11	10	8	3	1	0	3	1	0	0	0	0	0	6	0	0
February	5.96	1.22	.0	6.3	12.4	SW.	44	NW.	5	7	8	13	11	9	0	0	0	6	2	0	3	1	0	0	5	0	3
March	3.27	1.18	T	5.5	13.1	N.	37	N.	5	11	6	14	9	7	2	1	0	3	3	0	2	0	0	0	2	0	2
April	3.96	1.56	.0	4.6	13.9	SW.	45	N.	3	14	8	8	11	9	0	0	1	3	1	0	2	0	0	0	0	0	6
May	1.63	.69	.0	5.1	12.2	SW.	37	NW.	4	13	7	11	8	6	0	0	0	1	0	0	1	0	2	0	0	0	5
June	5.52	2.18	.0	5.5	10.1	SW.	34	NW.	1	10	9	11	13	11	0	0	0	2	1	0	0	0	5	0	0	0	10
July	9.36	4.27	.0	5.7	9.5	SW.	47	NW.	2	6	16	9	12	11	0	0	0	1	0	0	2	0	2	0	0	0	8
August	6.63	2.44	.0	5.8	10.4	SW.	47	NW.	4	8	13	10	11	8	0	0	0	0	0	0	0	0	6	1	0	0	9
September	1.06	.74	.0	4.6	10.7	NE.	33	NE.	2	13	11	6	4	2	0	0	0	0	1	0	0	0	4	1	0	0	2
October	6.68	3.76	.0	4.7	13.1	SW.	40	N.	6	15	6	10	8	8	0	0	2	1	0	0	0	0	1	0	0	0	2
November	2.81	1.62	.0	4.6	15.1	N.	38	NE.	6	16	2	12	7	6	0	0	0	0	0	0	0	0	0	0	0	0	0
December	1.60	7.2	1.8	5.1	12.9	SW.	40	NW.	6	12	11	8	9	7	1	1	0	1	0	0	0	0	0	0	10	0	0
Year	53.06	4.27	2.3	5.2	12.2	SW.	47	NW.	49	136	106	123	113	92	6	3	3	21	9	0	10	1	20	2	23	0	47

CHARLES CITY, IOWA

[H=1,013 ft.; H_b=1,015 ft.; H_t=10 ft.; H_r=4 ft.; H_a=51 ft.]

January	1.16	0.24	8.5	7.3	7.0	NW.	23	W.	0	3	10	18	9	6	19	7	0	6	5	2	1	16	0	0	30	2	1
February	2.42	1.22	27.3	4.6	8.4	NW.	23	E.	0	11	9	8	9	7	15	8	0	3	1	0	0	16	0	0	28	10	0
March	.75	.27	6.6	4.6	7.4	SE.	23	N.	0	13	10	8	8	5	11	6	0	6	3	1	2	8	0	0	25	1	0
April	1.28	.91	3.4	5.4	8.1	NW.	22	S.	0	11	8	11	6	5	5	1	0	0	0	0	0	1	0	0	14	0	0
May	2.44	1.30	.0	3.7	6.9	SE.	26	SE.	0	13	17	1	6	5	0	0	0	0	0	0	0	0	4	0	0	0	5
June	4.84	2.46	.0	4.6	6.5	SE.	24	SW.	0	12	13	5	13	7	0	0	0	0	0	0	0	0	3	0	0	0	7
July	1.66	.43	.0	3.5	5.4	SE.	19	S.	0	15	13	3	12	10	0	0	0	1	0	0	0	0	7	2	0	0	11
August	3.75	2.06	.0	5.6	5.0	SE.	19	SW.	0	10	10	11	8	7	0	0	0	4	1	0	0	0	1	0	0	0	6
September	.83	.26	T	3.0	6.4	SE.	21	SW.	0	17	10	3	5	5	1	0	0	1	0	0	0	0	7	5	1	0	2
October	1.55	.68	T	4.6	7.3	SE.	23	SW.	0	14	8	9	10	9	2	1	0	4	1	2	0	0	0	0	8	0	3
November	.59	.43	T	3.7	5.5	SE.	21	SE.	0	17	5	8	3	3	2	0	0	2	2	1	1	0	0	0	27	0	1
December	.40	.30	1.0	5.7	6.4	NW.	19	NW.	0	9	12	10	.3	3	8	1	0	1	1	0	0	11	0	0	28	2	0
Year	21.67	2.46	46.8	4.7	6.7	SE.	26	SE.	0	145	125	95	92	72	63	24	0	28	14	6	4	52	22	7	161	15	36

CHARLESTON, S. C.

Airport [H=43 ft.; H_b=48 ft.; H_t=5 ft.; H_r=3 ft.; H_a=38 ft.] City [H=9 ft.; H_b=48 ft.; H_t=11 ft.; H_r=3 ft.; H_a=92 ft.]

January	2.09	1.16	0.0	4.8	10.1	SW.	29	SW.	0	13	9	9	9	7	0	0	0	9	4	2	2	0	0	0	0	0	1
February	8.96	3.64	.0	6.1	11.3	S.	30	S.	0	9	2	17	12	11	0	0	0	7	6	5	2	0	0	0	2	0	4
March	1.87	.91	.0	4.7	11.1	SW.	26	SW.	0	12	10	9	6	5	0	0	0	3	1	0	0	0	0	0	0	0	2
April	2.05	.64	.0	4.6	10.8	S.	31	S.	0	13	11	6	10	8	0	0	0	0	0	0	0	0	1	0	0	0	0
May	2.54	.99	.0	5.0	9.8	S.	28	N.	0	13	8	10	9	6	0	0	0	1	0	0	0	0	0	0	0	0	7
June	6.63	3.41	.0	5.8	9.6	S.	25	SE.	0	8	11	11	14	10	0	0	0	1	0	0	0	0	10	1	0	0	19
July	10.77	7.06	.0	5.3	9.6	S.	37	NE.	1	8	15	8	13	9	0	0	0	0	0	0	0	0	12	0	0	0	3
August	8.78	2.64	.0	5.6	8.9	S.	27	NE.	0	9	13	9	16	12	0	0	0	1	1	0	0	0	8	0	0	0	11
September	1.16	.35	.0	5.7	10.2	NE.	28	NE.	0	9	11	10	8	7	0	0	0	1	0	0	0	0	7	3	0	0	2
October	.89	.73	.0	4.5	9.8	N.	26	N.	0	14	8	9	2	2	0	0	0	5	2	1	1	0	0	0	0	0	0
November	1.91	1.91	.0	4.7	9.3	N.	26	NW.	0	13	7	10	2	2	0	0	0	4	1	0	0	0	0	0	0	0	0
December	1.39	.45	.0	3.8	9.5	SW.	26	E.	0	18	4	9	8	7	0	0	0	0	0	0	0	0	0	0	0	0	5
Year	49.04	7.06	0.0	5.0	10.0	S.	37	NE.	1	139	109	117	109	86	0	0	0	32	15	8	5	0	38	4	2	0	54

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CHARLOTTE, N. C.

Airport [ϕ=35°14′ N.; λ=80°56′ W.] City [ϕ=35°13′ N.; λ=80°51′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	■	°	°	°	° (1)	°	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.24	29.63	28.66		39.1		48.7		36.3		41.4	55.6	36.1	45.8	69	26		32		32	32	(1)	75		53	64
February	29.28	29.74	28.67		44.4		53.1		41.3		47.0	59.0	40.3	49.6	76	19		37		40	38		75		62	69
March	29.26	29.72	28.64		47.5		58.9		43.0		48.8	65.7	45.1	55.4	84	29		37		38	38		69		49	59
April	29.19	29.65	28.77		53.1		63.9		47.9		52.4	70.6	49.4	60.0	84	35		42		41	42		68		47	57
May	29.19	29.43	28.88		62.7		72.8		58.6		62.0	79.7	58.6	69.1	95	43		55		55	55		78		55	66
June	29.19	29.36	28.97		74.3		81.9		69.9		71.3	90.9	70.8	80.8	98	65		68		66	67		81		62	71
July	29.18	29.34	28.94	71.3	72.0	85.3	79.8	68.7	69.3	72.7	68.6	88.8	69.9	79.4	98	63		68		69	68	88	88	57	71	79
August	29.17	29.41	28.90	70.4	70.4	84.9	76.9	69.0	68.7	72.8	71.8	88.0	69.3	78.6	94	60		68		70	69	94	92	57	79	85
September	29.23	29.55	29.00	67.4	65.7	84.1	75.7	64.1	63.2	69.0	67.5	86.2	65.2	75.7	101	57		62		63	62	84	87	47	66	77
October	29.25	29.58	28.87	58.3	55.1	74.5	64.9	54.1	52.7	60.2	56.9	76.9	54.1	65.5	92	35		50		51	50	77	85	45	62	74
November	29.39	29.71	29.08	42.3	39.0	57.8	49.1	38.5	36.5	49.9	42.5	59.5	39.4	49.4	75	31		33		35	34	72	80	46	60	70
December	29.16	29.65	28.78	39.5	36.4	52.0	45.0	36.3	34.2	42.9	39.7	54.2	36.1	45.2	70	28		31		33	32	75	81	49	64	73
Year	29.23	29.74	28.64		55.0		64.2		51.8		55.8	72.9	52.9	62.9	101	19		49		49	49		80		61	70

CHATTANOOGA, TENN.

Airport [ϕ=35°03′ N.; λ=85°12′ W.] City [ϕ=35°04′ N.; λ =85°18′W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)		(1)		
January	29.28	29.65	28.66		40.2		48.2		37.3		41.5	54.9	35.8	45.4	71	27		33		33	33		76		57	66
February	29.28	29.70	28.65		43.8		51.6		40.7		44.6	58.5	38.6	48.6	77	18		37		36	36		76		58	67
March	29.29	29.74	28.68		48.3		59.4		44.1		49.0	65.6	44.2	54.9	84	30		39		38	39		72		49	61
April	29.20	29.70	28.82		52.6		64.8		47.8		51.6	70.6	48.9	59.8	85	35		43		38	41		70		40	55
May	29.19	29.38	28.86		62.5		73.4		58.4		62.6	80.0	59.1	69.6	90	44		55		55	55		78		56	67
June	29.20	29.41	29.06		72.8		82.1		68.7		72.1	87.9	68.9	78.4	95	62		67		68	67		82		63	72
July	29.20	29.36	29.04	72.1	71.3	87.4	84.0	69.5	69.0	73.5	73.4	90.8	70.3	80.6	98	63	68	68	67	69	68	88	89	54	62	73
August	29.18	29.36	28.90	69.2	68.1	86.4	79.4	67.5	66.8	72.9	71.5	89.1	68.5	78.8	96	61	67	66	67	68	67	92	94	54	70	78
September	29.24	29.50	29.04	67.1	64.8	85.6	79.2	64.9	63.2	70.6	69.8	88.8	65.7	77.2	98	56	64	62	64	65	64	90	92	49	64	74
October	29.29	29.54	29.06	55.2	52.3	75.2	67.5	51.9	50.0	60.3	57.6	78.2	54.5	66.4	92	38	49	48	49	50	49	81	86	43	55	66
November	29.43	29.74	29.06	40.5	37.1	57.6	50.8	37.8	34.9	46.9	44.2	60.0	40.2	50.1	73	31	34	32	35	37	34	79	82	45	61	67
December	29.23	29.60	28.71	39.5	35.9	50.6	46.2	36.3	34.1	43.0	40.9	54.0	36.2	45.1	72	26	32	32	34	34	33	76	84	56	64	70
Year	29.25	29.74	28.65		54.1		65.6		51.2		56.6	73.2	52.6	62.9	98	18		48		49	49		82		58	68

CHEYENNE, WYO. (Airport)

[ϕ=41°08′ N.; λ=104°48′ W.]

	(4)	(4)	(4)																						
January	23.86	24.31	23.30	27.1	25.0	34.1	29.6	23.5	21.9	28.3	25.6	38.4	17.9	28.2	54	1	18	17	20	20	19	68	70	56	66	65
February	23.81	24.17	23.38	15.3	14.7	25.7	23.7	13.2	12.6	20.6	19.6	31.7	6.6	19.2	59	−10	8	8	11	12	10	74	73	54	62	66
March	23.94	24.28	23.48	28.7	27.8	41.7	41.5	26.3	25.0	33.5	33.3	46.2	22.7	34.4	66	−4	23	21	24	24	23	80	75	52	53	65
April	23.97	24.27	23.69	37.3	34.5	51.0	51.9	33.3	30.0	39.4	40.0	55.8	29.5	42.6	76	2	29	26	28	28	28	75	74	45	46	60
May	23.97	24.29	23.70	48.4	42.6	64.4	64.3	42.0	38.4	48.6	48.3	69.1	39.8	54.4	84	28	36	34	36	34	35	65	73	37	37	53
June	23.98	24.24	23.60	53.8	50.2	70.5	70.5	45.8	44.0	52.0	51.7	76.4	45.9	61.2	92	36	39	38	38	37	38	59	66	33	32	48
July	24.11	24.33	23.85	64.5	57.0	83.2	82.0	51.9	49.1	57.4	56.3	88.4	55.1	71.8	100	47	42	43	40	37	40	48	62	23	25	40
August	24.11	24.35	23.86	58.9	52.6	77.6	75.2	50.4	46.4	54.8	54.6	82.4	50.1	66.2	90	37	44	41	38	40	41	61	68	27	32	47
September	24.10	24.50	23.79	53.3	48.4	70.2	69.3	45.3	42.1	51.4	50.8	75.5	44.9	60.2	87	29	38	36	36	36	36	60	65	33	34	48
October	24.02	24.27	23.66	41.6	39.6	58.3	55.3	35.2	33.5	42.6	41.4	62.7	34.8	48.8	74	24	26	26	26	27	26	52	60	32	36	45
November	24.14	24.32	23.80	30.2	28.7	49.2	41.6	24.9	24.1	36.0	31.8	53.7	22.1	37.9	65	8	16	17	19	18	18	55	60	33	39	47
December	23.99	24.28	23.74	31.1	32.7	42.8	36.9	24.4	25.9	31.8	28.1	47.6	22.5	35.0	69	−7	13	15	17	15	15	48	51	40	44	46
Year	24.00	24.50	23.30	40.9	37.8	55.7	53.5	34.7	32.8	41.4	40.1	60.6	32.7	46.7	100	−10	28	27	28	27	27	62	66	39	42	52

CHICAGO, ILL. (University Observatory)

[ϕ=41°47′ N.; λ=87°35′ W.]

						(5)				(5)								(5)							
January	29.24	29.65	28.62		29.3	32.1	33.1		27.5	29.6	31.1	37.0	26.1	31.6	58	9		24	25	28	26		80	75	80	78
February	29.30	29.81	28.50		23.9	27.7	28.7		22.0	24.6	26.0	35.6	19.6	27.6	58	4		17	18	20	18		75	64	69	69
March	29.32	29.78	28.77		32.4	40.6	40.4		29.8	35.0	35.5	46.5	29.8	38.2	79	11		25	27	29	27		74	58	64	65
April	29.22	29.79	28.66		40.3	48.5	46.9		37.4	41.8	41.4	52.6	37.7	45.2	81	21		34	34	35	34		77	59	66	67
May	29.25	29.63	28.75		56.4	66.0	62.5		51.8	55.8	54.0	71.0	51.7	61.4	88	39		48	48	47	48		74	55	61	63
June	29.21	29.57	28.74		66.3	75.1	72.2		62.9	66.2	64.4	79.2	62.4	70.8	92	49		61	61	60	61		83	64	68	72
July	29.26	29.52	29.04		69.2	78.2	77.1		64.6	67.8	67.6	81.2	66.9	74.0	97	59		62	62	62	62		79	61	63	68
August	29.26	29.57	28.94		66.6	77.8	75.5		63.4	66.7	66.8	80.5	64.8	72.6	90	56		62	61	62	62		84	58	65	69
September	29.30	29.69	28.91		63.3	74.9	71.0		58.0	62.2	61.0	79.2	60.8	70.0	100	44		54	54	54	54		74	52	59	62
October	29.28	29.76	28.88		50.1	61.9	57.9		45.8	51.1	50.0	65.1	46.9	56.0	84	32		41	41	42	41		72	49	59	60
November	29.52	29.99	29.01		37.4	45.8	44.0		34.7	39.2	38.5	48.2	35.1	41.6	64	26		31	30	31	31		76	56	62	65
December	29.20	29.63	28.76		32.5	38.0	36.8		29.8	33.1	32.8	40.7	29.4	35.0	57	3		25	26	26	26		74	61	65	67
Year	29.28	29.99	28.50		47.3	55.6	53.8		44.0	47.8	47.4	59.7	44.3	52.0	100	3		40	41	41	41		77	59	65	67

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 779 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 762 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 6,094 feet.
[5] January to June, local noon time.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CHARLOTTE, N. C.

Airport [H=753 ft.; H_b=769 ft.; H_t=4 ft.; H_r=3 ft.; H_a=85 ft.] City [H=740 ft.; H_b=779 ft.; H_t=63 ft.; H_r=55 ft.; H_a=86 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.30	1.02	0.2	5.3	7.9	SW.	30	SW.	0	12	6	13	10	9	2	1	0	11	6	4	3	0	0	0	11	0	1
February	8.08	2.18	.0	6.7	8.6	SW.	34	SW.	1	7	5	16	14	13	0	0	0	11	5	5	1	0	0	0	5	0	4
March	5.00	2.08	1.4	5.5	8.3	SW.	28	SW.	0	9	11	11	12	11	1	1	0	7	2	1	1	0	0	0	3	0	3
April	1.69	.81	.0	4.8	8.9	SW.	30	SW.	0	10	12	8	8	7	0	0	0	6	3	3	2	0	0	0	0	0	1
May	3.60	2.25	.0	6.2	7.2	S.	25	SW.	0	7	13	11	8	6	0	0	1	10	2	1	0	0	2	1	0	0	6
June	4.30	1.05	.0	6.3	6.9	SW.	28	SW.	0	5	11	14	11	10	0	0	0	4	3	0	0	0	18	6	0	0	11
July	8.07	4.94	.0	6.4	6.6	SW.	24	S.	0	4	17	10	14	10	0	0	0	16	1	1	0	0	14	2	0	0	14
August	5.85	2.32	.0	6.0	6.2	S.	27	SW.	0	7	14	10	12	9	0	0	1	19	3	0	1	0	12	0	0	0	10
September	1.56	.91	.0	4.6	6.2	NE.	23	NE.	0	14	10	6	5	5	0	0	0	10	3	3	0	0	8	4	0	0	7
October	1.09	.55	.0	4.3	6.7	NE.	21	SW.	0	16	9	6	4	4	0	0	1	14	2	1	0	0	2	0	0	0	1
November	1.09	.72	.0	5.0	6.4	NE.	18	N.	0	15	3	12	8	6	0	0	0	6	0	0	0	0	0	0	2	0	0
December	2.56	.85	T	5.1	7.4	SW.	30	NW.	0	10	13	8	12	9	2	1	0	9	2	0	0	0	0	0	9	0	2
Year	46.19	4.94	1.6	5.5	7.3	SW.	34	SW.	1	116	124	125	118	99	5	3	3	123	32	19	8	0	56	13	30	0	60

CHATTANOOGA, TENN.

Airport [H=671 ft.; H_b=688 ft.; H_t=21 ft.; H_r= 3 ft.; H_a=54 ft.] City [H=689 ft.; H_b=762 ft.; H_t=71 ft.; H_r=64 ft.; H_a=214 ft.]

January	4.95	1.42	0.0	5.5	8.8	W.	42	SW.	2	12	5	14	15	12	0	0	1	7	5	5	3	0	0	0	10	0	2
February	12.30	2.46	T	6.4	9.4	SE.	30	S.	0	6	8	14	15	13	2	0	1	9	4	2	2	0	0	0	4	0	8
March	4.40	1.11	T	5.4	9.0	NE.	35	W.	1	10	10	11	13	12	2	2	0	4	1	1	1	0	0	0	1	0	4
April	3.51	.82	.0	5.4	9.1	W.	34	W.	2	10	10	10	12	7	0	0	0	2	0	0	0	0	0	0	0	0	6
May	4.55	1.95	.0	6.8	7.1	SE.	28	SE.	0	6	7	18	16	12	0	0	0	5	1	1	1	0	1	0	0	0	9
June	4.40	.97	.0	6.6	6.8	W.	36	NW.	3	4	14	12	17	13	0	0	0	1	0	0	0	0	7	0	0	0	9
July	1.93	.70	.0	5.5	6.8	W.	25	S.	0	8	12	11	11	9	0	0	0	1	0	0	0	0	19	3	0	0	10
August	2.62	.76	.0	5.4	6.9	W.	28	NW.	0	11	10	10	14	8	0	0	0	2	1	0	0	0	13	2	0	0	10
September	1.80	1.14	.0	3.9	6.5	W.	30	N.	0	17	7	6	8	5	0	0	1	3	1	0	0	0	17	6	0	0	5
October	.25	.24	.0	3.6	7.3	W.	25	SW.	0	17	7	7	2	1	0	0	0	1	0	0	0	0	2	0	0	0	0
November	.67	.46	.0	5.9	6.2	NE.	23	S.	0	10	4	16	9	5	0	0	0	4	3	2	1	0	0	0	1	0	0
December	3.39	1.27	.2	4.9	8.1	W.	26	W.	0	14	6	11	9	5	3	2	0	7	3	1	1	0	0	0	9	0	0
Year	44.77	2.46	.2	5.4	7.7	W.	42	SW.	8	125	100	140	141	102	7	4	3	46	19	12	9	0	59	11	25	0	63

CHEYENNE, WYO. (Airport)

[H=6,139 ft.; H_b=6,094 ft.; H_t= 5 ft.; H_r=15 ft.; H_a=39 ft.]

January	0.71	0.53	5.1	6.5	14.9	NW.	44	NW.	13	7	9	15	7	4	12	7	0	2	0	0	0	7	0	0	29	0	0
February	.75	.31	12.3	5.9	15.2	NW.	44	NW.	14	7	10	11	7	4	11	7	0	8	1	0	0	16	0	0	28	8	0
March	1.73	.38	19.0	5.2	13.0	NW.	44	NW.	8	10	12	9	10	9	12	10	0	8	1	0	1	7	0	0	25	1	0
April	1.82	.46	20.4	6.4	14.0	NW.	41	N.	8	7	8	15	11	10	11	9	2	10	2	0	3	2	0	0	17	0	2
May	1.69	.42	T	6.1	11.0	NW.	32	NW.	1	10	5	16	10	7	1	0	3	3	0	0	1	0	0	0	2	0	13
June	.83	.28	.0	5.1	11.5	NW.	48	NW.	6	7	17	6	13	6	0	0	3	2	1	0	0	0	1	0	0	0	13
July	.70	.20	.0	4.4	9.3	NW.	31	NW.	0	14	12	5	5	5	0	0	1	0	0	0	0	0	12	5	0	0	10
August	.43	.21	.0	4.9	9.4	NW.	35	N.	4	11	15	5	9	5	0	0	0	2	0	0	0	0	2	0	0	0	7
September	.49	.16	T	4.6	10.9	NW.	34	W.	1	13	8	9	7	4	2	0	1	4	2	1	3	0	0	0	2	0	2
October	.37	.18	2.9	4.1	12.2	NW.	40	W.	4	14	11	6	5	3	4	2	0	5	0	0	1	0	0	0	11	0	0
November	.06	.06	1.2	3.6	9.1	NW.	30	NW.	0	16	9	5	1	1	2	1	0	6	4	2	2	1	0	0	28	0	0
December	.26	.16	3.6	5.7	13.7	NW.	47	NW.	11	7	16	8	4	2	10	4	0	5	2	1	1	6	0	0	20	3	0
Year	9.84	.53	64.5	5.2	12.0	NW.	48	NW.	70	123	132	110	89	60	65	40	10	55	13	4	12	39	15	5	162	12	47

CHICAGO, ILL. (University Observatory)

[H=594 ft.; H_b=673 ft.; H_t=7 ft.; H_r=3 ft.; H_a=131 ft.]

January	2.22	0.97	24.7	8.4	10.5	S.	33	NE.	1	3	3	25	13	8	16	11	0	5	3	0	1	11	0	0	23	0	0
February	1.98	.98	5.1	6.4	12.1	SW.	36	SW.	1	6	9	13	12	8	14	6	0	2	1	0	0	12	0	0	26	0	1
March	2.96	1.59	.3	5.1	12.0	W.	35	W.	1	10	14	7	9	9	7	1	0	5	4	1	2	5	0	0	18	0	1
April	3.22	.96	.1	6.2	10.9	SW.	27	SW.	0	8	10	12	13	11	6	2	0	6	1	0	0	0	0	0	8	0	2
May	3.66	1.94	.0	3.9	9.7	SW.	25	N.	0	16	11	4	11	9	0	0	0	3	3	1	2	0	0	0	0	0	8
June	5.13	2.09	.0	5.5	8.6	SW.	27	S.	0	8	14	8	15	10	0	0	0	6	2	0	0	0	2	0	0	0	10
July	2.74	1.42	.0	4.0	8.9	NE.	26	NW.	0	18	7	6	7	3	0	0	0	1	0	0	0	0	1	1	0	0	6
August	1.47	.58	.0	4.0	8.5	SW.	26	SW.	0	15	9	7	11	9	0	0	0	4	0	0	0	0	0	0	0	0	5
September	.49	.28	.0	3.4	10.6	SW.	27	SW.	0	16	9	5	4	2	0	0	0	2	0	0	0	7	4	0	0	0	0
October	1.79	.77	.0	4.8	11.3	SW.	31	SW.	0	13	8	10	10	7	0	0	0	2	1	0	1	0	0	0	0	0	3
November	.95	.50	.4	5.5	10.5	SW.	26	NW.	0	11	5	14	8	5	3	1	0	3	0	0	0	0	0	0	7	0	0
December	.90	.66	.5	6.6	11.6	NW.	33	SW.	1	8	6	17	3	3	10	1	0	2	0	0	0	6	0	0	19	0	0
Year	27.51	2.09	31.1	5.3	10.4	SW.	36	SW.	4	132	105	128	116	84	56	22	0	41	15	2	6	34	10	5	101	0	36

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CINCINNATI, OHIO (Abbe. Meteorological Observatory)

Airport [ϕ=39°06′ N.; λ=84°25′ W] City [ϕ=39°09′ N.; λ=84°31′ W]

Month	Pressure			Temperature (°F.)												Moisture										
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity					
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.35	29.71	28.63	----	34.2	40.1	39.1	----	32.3	36.1	35.4	45.1	30.3	37.7	64	14	----	29	30	30	30	----	82	69	71	74
February	29.40	29.90	28.84	----	32.0	39.1	37.5	----	30.4	34.6	33.3	45.0	25.9	35.4	74	8	----	28	28	27	28	----	83	65	67	72
March	29.39	29.86	28.64	----	38.3	48.6	47.9	----	35.1	41.2	40.5	55.8	34.7	45.2	82	18	----	31	32	31	31	----	74	55	54	61
April	29.30	29.89	28.87	----	45.0	54.6	53.1	----	41.3	46.2	45.6	59.5	41.9	50.7	82	27	----	36	37	37	37	----	73	54	57	61
May	29.32	29.62	28.85	----	58.7	73.7	70.6	----	54.8	61.1	59.7	77.3	55.7	66.5	90	36	----	52	52	51	52	----	78	48	53	60
June	29.31	29.60	29.00	----	69.3	79.6	75.5	----	66.6	70.5	68.7	83.1	65.0	74.0	92	53	----	65	66	65	65	----	87	65	72	75
July	29.31	29.58	29.08	68.8	69.2	84.2	81.5	66.4	66.5	71.9	71.7	84.4	65.6	75.0	93	54	65	65	66	67	66	89	87	56	64	74
August	29.31	29.56	29.01	67.1	66.3	85.3	79.8	65.2	64.5	69.7	69.9	85.0	64.1	74.6	92	58	64	63	62	65	64	91	91	46	62	72
September	29.35	29.66	29.08	64.7	61.5	85.4	76.8	60.5	58.8	66.5	65.3	86.7	60.3	73.5	101	45	58	57	55	59	57	80	86	38	55	65
October	29.39	29.81	29.02	49.5	48.2	69.4	60.9	46.7	45.9	55.4	52.4	70.5	47.6	59.0	90	30	44	44	43	44	44	82	86	42	57	67
November	29.58	29.94	29.21	35.4	32.2	50.0	43.5	33.7	31.1	42.1	38.9	51.7	34.0	42.8	69	26	32	30	32	33	32	86	92	54	68	75
December	29.30	29.72	28.90	34.2	32.7	41.8	38.5	32.2	31.0	36.7	34.7	44.4	30.5	37.4	65	6	29	28	30	30	29	82	84	64	70	75
Year	29.36	29.94	28.63	----	49.0	62.6	58.7	----	46.5	52.7	51.3	65.7	46.3	56.0	101	6	----	44	44	45	44	----	84	55	62	71

CLEVELAND, OHIO

Airport [ϕ=41°24′ N.; λ=81°51′ W] City [ϕ=41°30′ N.; λ=81°42′ W]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.14	29.54	28.49	----	30.0	33.6	33.4	----	28.2	30.5	30.3	39.8	25.2	32.5	66	8	----	25	26	26	26	----	82	73	72	76
February	29.20	29.76	28.62	----	29.7	35.1	32.4	----	27.4	31.1	29.2	40.9	23.1	32.0	68	8	----	23	24	24	24	----	77	66	72	72
March	29.21	29.70	28.57	----	34.4	38.6	39.2	----	31.4	33.6	34.4	46.2	28.8	37.5	75	15	----	27	27	28	27	----	74	64	64	67
April	29.11	29.66	28.64	----	41.2	46.1	47.1	----	37.7	40.4	41.0	53.4	37.6	45.5	79	20	----	33	34	34	34	----	74	65	62	67
May	29.17	29.49	28.64	----	57.3	62.7	65.2	----	51.5	54.1	54.8	69.9	53.2	61.6	87	37	----	46	47	46	46	----	68	59	53	60
June	29.15	29.43	28.82	----	66.7	72.6	74.8	----	62.0	64.4	64.8	79.2	63.1	71.2	90	53	----	59	60	59	59	----	78	66	60	68
July	29.17	29.40	28.82	66.1	67.7	80.4	78.6	62.0	63.4	66.8	66.5	80.6	65.7	73.2	92	57	60	61	59	60	60	80	80	50	54	66
August	29.17	29.44	28.94	65.3	66.0	82.0	76.6	62.0	62.6	68.1	66.9	79.9	66.4	73.2	90	59	60	61	60	62	61	84	84	50	61	70
September	29.21	29.62	28.86	62.6	61.5	76.5	68.6	57.7	57.1	62.7	60.8	75.6	59.2	67.4	94	48	54	54	54	56	54	76	78	50	66	68
October	29.21	29.64	28.78	51.4	48.5	63.0	55.9	46.9	45.5	51.9	49.5	63.6	48.7	56.2	88	33	42	42	42	44	42	73	80	48	64	66
November	29.40	29.80	28.92	36.8	34.2	45.8	39.8	34.0	32.1	39.8	36.6	47.4	36.1	41.8	69	28	30	29	32	32	31	77	82	62	75	74
December	29.08	29.57	28.64	32.9	31.6	36.9	33.9	30.9	29.7	33.5	31.6	41.2	30.6	35.9	62	12	28	27	29	28	28	81	81	72	78	78
Year	29.18	29.80	28.49	----	47.4	56.1	53.8	----	44.0	48.1	47.2	59.8	44.8	52.3	94	8	----	41	41	42	41	----	78	60	65	72

COLUMBIA, MO.

Airport [ϕ=38°57′ N.; λ=92°20′ W] City [ϕ=38°57′ N.; λ=92°20′ W]

	(1 4)	(1 4)	(1 4)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.15	29.63	28.66	----	34.4	43.1	----	----	31.9	37.7	----	47.4	31.3	39.4	67	16	----	28	31	----	----	78	----	63	----	----
February	29.21	29.72	28.50	----	25.4	34.7	----	----	23.5	30.2	----	41.3	21.9	31.6	65	2	----	20	23	----	----	76	----	62	----	----
March	29.22	29.65	28.56	----	38.3	52.3	----	----	35.3	43.7	----	57.1	35.8	46.4	83	18	----	31	34	----	----	76	----	53	----	----
April	29.12	29.65	28.64	----	46.0	58.9	----	----	42.7	49.4	----	63.0	43.5	53.2	84	23	----	39	40	----	----	77	----	53	----	----
May	29.10	29.48	28.69	----	60.6	74.5	----	----	56.4	62.8	----	78.3	57.9	68.1	92	46	----	53	55	----	----	77	----	53	----	----
June	29.08	29.45	28.73	----	68.6	79.7	----	----	65.5	70.3	----	83.8	66.2	75.0	92	56	----	64	66	----	----	85	----	64	----	----
July	29.12	29.41	28.92	74.7	71.8	87.5	86.6	69.4	67.9	73.6	73.1	92.0	69.6	80.8	102	59	67	66	67	67	67	82	78	53	54	67
August	29.13	29.32	28.89	69.1	65.9	83.3	78.4	65.2	63.4	70.8	69.1	86.7	64.0	75.4	97	53	63	62	65	64	64	88	82	55	64	72
September	29.17	29.48	28.82	69.3	63.8	84.0	78.8	60.7	58.0	66.0	64.7	88.3	62.6	75.4	103	38	55	54	55	56	55	72	62	39	48	55
October	29.18	29.73	28.81	55.9	51.5	69.6	63.2	49.2	47.0	55.5	52.6	74.5	47.7	61.1	96	25	43	43	44	43	43	73	63	43	50	58
November	29.44	29.87	28.95	40.0	36.1	49.4	45.7	36.5	33.8	42.3	40.1	52.9	34.1	43.5	75	22	32	30	34	33	32	81	73	58	63	69
December	29.17	29.51	28.85	34.5	31.0	43.1	39.3	31.5	28.9	37.1	34.5	47.4	29.1	38.2	71	2	27	26	30	28	28	80	75	61	66	70
Year	29.17	29.87	28.50	----	49.4	63.3	----	----	46.2	53.3	----	67.7	47.0	57.3	103	2	----	43	45	----	----	79	----	55	----	----

COLUMBIA, S. C.

Airport [ϕ=34°00′ N.; λ=81°03′ W] City [ϕ=34°00′ N.; λ=81°03′ W]

	(5 6)	(5 6)	(5 6)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)						(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)
January	29.73	30.10	29.19	46.1	42.2	56.3	53.0	41.5	39.1	46.8	44.6	60.4	39.2	49.8	75	27	35	34	35	34	34	67	74	48	50	60
February	29.76	30.20	29.24	51.0	47.8	61.0	57.0	46.8	45.0	52.8	50.1	64.7	44.6	54.6	77	22	42	41	44	42	42	72	78	57	61	67
March	29.73	30.20	29.17	54.7	51.1	66.1	62.9	48.4	46.8	53.0	52.0	69.8	48.6	59.2	84	30	41	42	40	41	41	63	71	42	48	56
April	29.64	30.12	29.19	58.8	55.9	70.8	67.0	52.8	51.0	56.4	55.7	74.4	53.1	63.8	85	40	47	46	43	45	45	66	70	40	49	56
May	29.65	29.88	29.36	64.5	64.0	78.4	73.2	60.3	60.3	64.1	63.9	82.0	60.1	71.0	92	41	57	58	55	58	57	78	80	46	60	66
June	29.64	29.81	29.43	75.3	75.2	87.9	83.3	70.7	70.6	73.4	72.2	91.5	72.2	81.8	101	68	69	68	67	67	68	81	80	52	60	68
July	29.63	29.79	29.35	74.9	74.2	87.4	82.8	70.6	70.8	74.2	73.2	91.2	71.8	81.5	102	67	68	69	68	69	68	82	85	54	64	71
August	29.63	29.84	29.40	73.3	72.6	85.7	78.9	70.5	69.9	73.7	72.0	88.9	70.2	79.6	97	62	69	69	68	69	69	87	88	57	73	76
September	29.68	29.96	29.45	72.2	70.1	84.9	79.2	67.6	66.3	70.9	69.7	87.9	68.5	78.2	101	60	65	64	64	65	64	79	82	51	63	69
October	29.71	30.00	29.36	63.0	59.9	76.4	70.4	57.4	56.0	61.8	59.5	79.4	57.3	68.4	92	41	52	52	52	51	52	71	78	44	53	62
November	29.86	30.18	29.49	43.1	39.3	61.2	53.1	40.7	37.6	49.1	45.6	63.0	40.6	51.8	76	28	38	36	36	37	37	82	86	43	57	67
December	29.65	30.13	29.27	42.7	38.3	56.8	49.4	39.4	36.6	46.5	42.8	58.4	38.2	48.3	74	28	35	34	35	35	35	76	86	46	59	67
Year	29.69	30.20	29.17	60.0	57.6	72.7	67.5	55.6	54.2	60.2	58.4	76.0	55.4	65.7	102	22	52	51	51	51	51	75	80	48	58	65

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 627 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 762 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 784 feet.
[5] Airport data beginning with November.
[6] Pressure at airport adjusted to the old (city) station elevation of 347 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

CINCINNATI, OHIO (Abbe. Meteorological Observatory)

Airport [H=483 ft.; H_b=497 ft.; H_t=22 ft.; H_r=19 ft.; H_a=48 ft.] City [H=761 ft.; H_b=627 ft.; H_t=11 ft.; H_r=3 ft.; H_a=51 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	3.77	1.93	6.5	8.5	9.2	SW.	30	W.	0	2	5	24	12	9	15	5	1	3	1	0	0	4	0	0	18	0	1
February	4.27	.88	11.4	6.8	9.6	SW.	35	SW.	1	5	9	14	15	14	8	5	0	1	0	0	0	6	0	0	19	0	0
March	6.93	1.97	T	5.6	9.6	S.	31	W.	0	9	10	12	10	9	3	0	2	3	2	1	1	0	0	0	14	0	4
April	7.35	3.43	.2	6.3	9.4	SW.	32	SW.	1	9	6	15	17	14	4	1	0	1	1	0	0	0	0	0	4	0	7
May	2.41	1.24	.0	5.3	6.3	SW.	22	W.	0	10	12	9	11	6	0	0	0	8	2	1	0	0	1	0	0	0	7
June	6.29	1.76	.0	6.1	6.4	SW.	30	NW.	0	7	12	11	15	14	0	0	1	2	0	0	0	0	3	0	0	0	13
July	2.76	1.01	.0	6.3	5.2	SW.	21	N.	0	7	10	14	11	6	0	0	0	3	0	0	0	0	4	0	0	0	12
August	2.16	1.65	.0	4.2	5.3	NE.	23	NW.	0	16	8	7	5	5	0	0	1	4	2	0	0	0	2	0	0	0	4
September	.71	.49	.0	3.6	6.5	SW.	25	SW.	0	18	7	5	4	3	0	0	0	3	1	1	1	0	11	6	0	0	5
October	2.18	1.34	.0	3.6	7.3	SW.	22	SW.	0	19	6	6	6	4	0	0	0	2	2	0	0	0	1	0	2	0	0
November	.85	.43	T	5.5	7.1	SW.	22	SW.	0	11	8	11	7	4	2	1	0	2	2	1	1	0	0	0	12	0	0
December	1.41	.50	6.2	6.7	9.5	SW.	24	W.	0	9	6	16	8	6	13	4	1	1	1	1	0	6	0	0	21	0	0
Year	41.09	3.43	24.3	5.7	7.6	SW.	35	SW.	2	122	99	144	121	94	45	16	6	33	14	5	3	16	22	6	90	0	53

CLEVELAND, OHIO

Airport [H=787 ft.; H_b=805 ft.; H_t=27 ft.; H_r=3 ft.; H_a=54 ft.] City [H=651 ft.; H_b=762 ft.; H_t=267 ft.; H_r=264 ft.; H_a=318 ft.]

January	2.43	0.76	12.7	8.8	16.7	S.	56	W.	12	0	6	25	17	12	18	14	0	3	----	----	0	10	0	0	23	0	0
February	2.99	.80	10.2	6.2	18.5	S.	51	SW.	13	8	6	14	18	17	17	10	0	0	----	----	0	9	0	0	24	0	1
March	2.77	1.03	3.0	6.7	16.9	W.	47	W.	12	5	10	16	13	10	10	6	0	5	----	----	0	5	0	0	23	0	0
April	2.80	.73	2.2	6.6	16.5	SW.	47	W.	10	7	8	15	17	11	7	3	1	5	----	----	0	0	0	0	10	0	1
May	1.48	.66	.0	4.1	12.3	SW.	37	SW.	4	14	12	5	6	5	0	0	0	3	----	----	0	0	0	0	0	0	4
June	3.25	.87	.0	5.4	12.3	S.	43	NW.	3	7	15	8	15	14	0	0	1	0	----	----	0	0	0	0	0	0	10
July	1.53	.71	.0	4.1	11.2	NW.	35	W.	4	15	9	7	7	5	0	0	0	0	----	----	0	0	3	0	0	0	6
August	.72	.42	.0	3.4	11.8	S.	32	SW.	1	16	10	5	6	4	0	0	0	2	----	----	0	0	1	0	0	0	5
September	2.93	1.35	.0	4.5	14.5	SE.	49	S.	7	10	13	7	8	8	0	0	0	2	----	----	0	0	5	0	0	0	6
October	1.84	.75	T	5.2	16.8	S.	43	NW.	11	11	8	12	13	8	1	1	0	2	----	----	0	0	0	0	0	0	5
November	1.24	.50	.4	6.6	14.6	SW.	47	SW.	5	7	7	16	10	8	7	3	0	6	----	----	0	0	0	0	5	0	1
December	1.17	.32	3.9	8.6	17.4	SW.	49	NW.	10	0	6	25	16	10	13	9	0	2	----	----	0	8	0	0	17	0	0
Year	25.15	1.35	32.4	5.8	14.9	S.	56	W.	92	100	110	155	146	112	73	46	2	30	----	----	0	32	9	0	102	0	39

COLUMBIA, MO.

Airport [H=781 ft.; H_b=785 ft.; H_t=5 ft.; H_r=3 ft.; H_a=50 ft.] City [H=733 ft.; H_b=784 ft.; H_t=6 ft.; H_r=3 ft.; H_a=64 ft.]

January	1.66	0.65	7.9	6.8	9.3	W.	27	NW.	0	3	14	14	12	7	11	7	0	0	0	0	0	2	0	0	16	0	0
February	2.45	1.16	7.8	6.2	9.7	S.	24	S.	0	7	10	11	9	6	11	5	0	3	1	1	1	8	0	0	27	0	1
March	2.66	1.25	T	5.5	9.3	S.	25	SW.	0	11	9	11	8	8	4	0	2	2	0	1	2	0	0	0	9	0	3
April	4.52	2.38	T	6.3	9.2	S.	26	SW.	0	7	8	15	11	8	2	0	0	2	1	1	1	0	0	0	3	0	3
May	5.00	2.17	.0	5.0	7.0	S.	27	N.	0	12	10	9	9	5	0	0	0	4	3	0	1	0	2	0	0	0	6
June	3.12	1.05	.0	6.2	7.5	S.	29	W.	0	5	14	11	10	6	0	0	0	2	2	1	1	0	4	0	0	0	11
July	2.33	.94	.0	4.4	7.3	S.	26	SE.	0	10	16	5	5	4	0	0	0	0	0	0	0	0	20	11	0	0	8
August	8.71	4.39	.0	5.1	6.7	E.	26	N.	0	10	15	6	11	11	0	0	0	2	1	0	1	0	6	1	0	0	9
September	.58	.41	.0	3.2	7.3	S.	21	SW.	0	19	9	2	3	3	0	0	0	0	0	0	0	0	15	8	0	0	2
October	1.33	.57	.0	4.1	8.1	S.	29	SW.	0	17	7	7	5	5	0	0	0	0	0	0	0	0	3	1	3	0	6
November	4.00	2.20	.0	6.0	6.6	N.	22	SW.	0	8	10	12	9	7	0	0	0	5	2	0	0	0	0	0	15	0	0
December	1.16	.69	7.0	6.0	7.5	W.	25	NW.	0	9	10	12	8	3	7	6	0	0	0	0	0	6	0	0	19	0	0
Year	37.52	4.39	22.7	5.4	8.0	S.	29	SW.	0	118	132	115	100	73	35	18	2	20	10	4	7	16	50	21	92	0	49

COLUMBIA, S. C.

Airport [H=202 ft.; H_b=225 ft.; H_t=25 ft.; H_r=23 ft.; H_a=43 ft.] City [H=332 ft.; H_b=347 ft.; H_t=70 ft.; H_r=68 ft.; H_a=91 ft.]

January	1.64	0.58	0.0	4.2	9.4	SW.	35	SW.	1	15	8	8	10	7	0	0	0	3	1	1	1	0	0	0	6	0	1
February	9.39	3.59	.0	5.7	9.5	S.	33	SW.	1	10	7	11	14	12	0	0	0	5	4	4	1	0	0	0	3	0	4
March	1.85	.84	.0	4.1	9.0	SW.	32	SW.	1	16	7	8	9	6	0	0	0	3	1	0	0	0	0	0	1	0	1
April	2.18	.45	.0	3.5	9.6	S.	31	SW.	0	17	10	3	10	9	0	0	1	1	1	1	1	0	0	0	0	0	6
May	3.47	1.62	.0	4.5	7.9	S.	23	SW.	0	11	16	4	10	8	0	0	2	3	1	0	0	0	2	0	0	0	9
June	2.53	1.20	.0	4.9	7.8	S.	22	SW.	0	9	15	6	9	4	0	0	0	2	2	1	1	0	19	8	0	0	12
July	6.93	3.11	.0	4.8	7.5	S.	27	NW.	0	8	22	1	13	11	0	0	0	7	5	4	2	0	22	2	0	0	11
August	6.16	1.27	.0	5.2	6.8	S.	31	SW.	0	13	8	10	15	12	0	0	0	4	4	2	1	0	15	2	0	0	13
September	6.06	5.42	.0	4.6	7.5	NE.	21	NE.	0	13	10	7	8	7	0	0	0	2	1	0	0	0	13	4	0	0	5
October	.04	.04	.0	4.0	7.5	NE.	24	SW.	0	16	8	7	1	1	0	0	0	3	2	2	0	0	3	0	0	0	0
November	.90	.74	T	4.6	6.8	NE.	18	SW.	0	14	4	12	6	3	1	0	0	4	0	0	0	0	0	0	2	0	0
December	2.18	.85	.0	4.6	8.6	SW.	27	SW.	0	13	8	10	9	8	0	0	0	4	3	2	2	0	0	0	6	0	0
Year	43.33	5.42	T	4.6	8.2	SW.	35	SW.	3	155	123	87	114	88	1	0	3	41	25	17	11	0	74	16	18	0	62

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

COLUMBUS, OHIO

Airport [ϕ=40°00′ N.; λ=82°53′ W.] City [ϕ=39°58′ N.; λ=83°00′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	In. (1 2)	In. (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.13	29.49	28.44		32.3		37.1		30.4		33.6	42.7	27.9	35.3	61	13		27		28	28		81		70	75
February	29.19	29.71	28.63		30.2		35.5		29.8		32.0	42.8	25.0	33.9	70	4		25		26	26		80		70	75
March	29.18	29.67	28.42		36.7		44.9		33.7		38.9	52.3	32.5	42.4	81	16		29		31	30		74		60	67
April	29.09	29.66	28.64		42.9		52.1		39.6		44.7	57.3	39.4	48.4	81	25		35		36	36		75		57	66
May	29.12	29.40	28.65		58.4		72.0		53.2		59.0	77.7	54.6	66.2	91	34		49		49	49		71		46	58
June	29.11	29.39	28.85		69.5		77.3		65.1		67.6	83.5	65.2	74.4	93	52		63		62	63		79		62	71
July	29.12	29.36	28.85	66.7	67.7	79.8	77.3	64.0	64.1	68.5	68.6	83.8	65.3	74.6	95	56	62	62	62	64	63	87	83	58	65	74
August	29.11	29.35	28.87	66.4	65.7	83.2	77.9	63.0	63.0	67.4	67.0	85.4	64.4	74.9	93	56	61	62	58	61	61	84	87	44	58	72
September	29.15	29.50	28.86	63.8	61.2	81.7	73.6	58.7	56.9	64.0	61.7	84.4	60.5	72.4	98	47	55	54	53	54	54	75	78	39	52	65
October	29.18	29.58	28.80	50.1	47.6	65.4	57.7	45.6	45.2	52.4	49.2	67.8	46.7	57.2	89	31	41	42	40	41	41	73	82	42	55	69
November	29.36	29.70	29.00	35.1	32.4	47.4	41.2	32.9	30.8	40.3	37.1	50.2	34.0	42.1	67	27	30	28	31	31	30	80	85	56	69	77
December	29.07	29.52	28.65	32.7	30.9	38.1	34.8	30.9	29.3	34.3	32.2	42.2	29.5	35.8	59	6	28	27	29	28	28	83	83	70	76	80
Year	29.15	29.71	28.42		48.0		56.8		45.1		49.3	64.2	45.4	54.8	98	4		42		43	42		80		62	71

CONCORD, N. H.

[ϕ=43°12′ N.; λ=71°32′ W.]

January	29.65	30.24	28.82		18.0	25.6			16.5	22.5		31.1	12.5	21.8	54	−10		13	15		14		79	64		72
February	29.76	30.31	28.97		20.0	28.7			18.6	25.6		35.4	15.5	25.4	50	−4		15	19		17		80	67		74
March	29.73	30.22	29.05		24.1	30.0			22.7	28.6		37.0	19.3	28.2	55	2		19	18		18		81	57		69
April	29.60	30.20	29.03		37.2	45.7			34.9	39.1		49.7	31.8	40.8	69	20		32	30		31		80	57		68
May	29.66	30.03	29.16		52.2	65.0			47.2	52.1		69.6	43.9	56.8	86	29		42	38		40		70	40		55
June	29.67	29.98	29.38		61.1	71.6			57.2	60.7		77.4	53.1	65.2	88	42		54	52		53		79	56		68
July	29.66	30.00	29.25		66.3	80.4			62.4	66.2		83.4	58.2	70.8	95	46		60	57		58		81	48		64
August	29.69	30.01	29.41		65.5	80.3			63.2	67.9		83.2	60.8	72.0	90	53		62	61		62		88	54		71
September	29.72	30.25	29.29		54.0	70.2			51.9	58.7		73.0	48.3	60.6	95	34		50	50		50		88	52		70
October	29.69	30.08	28.95		43.2	57.9			41.4	48.9		60.3	38.8	49.6	86	22		39	39		39		86	53		70
November	29.81	30.26	29.10		30.0	43.5			27.4	35.7		45.9	27.0	36.4	57	15		22	23		22		74	45		60
December	29.48	30.09	28.80		24.0	32.5			22.6	28.6		35.9	19.0	27.4	57	3		19	20		20		82	60		71
Year	29.68	30.31	28.80		41.3	52.6			38.8	44.6		56.8	35.7	46.2	95	−10		36	35		36		81	54		68

CONCORDIA, KANS.

[ϕ=39°35′ N.; λ=97°41′ W.]

January	28.47	29.03	27.87	33.8	30.5	40.5	40.1	30.2	27.7	34.5	34.3	46.4	27.2	36.8	69	11	24	23	26	26	25	69	74	58	57	64
February	28.54	29.11	27.89	23.8	20.4	31.3	30.5	20.9	18.3	25.7	25.5	38.8	14.3	26.6	58	−5	14	14	14	15	14	66	75	50	54	61
March	28.55	28.96	27.92	39.5	35.5	46.9	48.9	35.4	32.9	39.9	41.5	53.6	32.3	43.0	81	9	30	30	32	34	32	70	79	58	59	66
April	28.49	28.99	28.09	48.6	44.6	58.2	59.8	43.2	41.1	47.3	48.6	63.9	41.7	52.8	92	24	37	37	36	38	37	66	75	46	47	58
May	28.42	28.86	28.05	63.3	59.4	76.3	76.7	56.1	53.8	60.8	61.5	80.7	56.4	68.6	95	41	50	49	50	50	50	65	70	42	42	55
June	28.40	28.83	28.05	69.5	67.3	80.7	82.5	63.9	62.4	66.1	67.2	86.1	63.8	75.0	100	50	61	60	58	59	60	75	78	47	46	62
July	28.46	28.73	28.16	79.0	73.6	91.8	93.0	66.7	65.3	70.1	70.0	97.3	70.8	84.0	110	62	60	60	59	57	59	55	66	35	33	47
August	28.48	28.74	28.19	72.6	67.5	82.9	84.8	64.7	62.9	67.6	68.4	88.6	65.1	76.8	100	56	60	60	59	59	60	66	78	47	45	59
September	28.52	28.92	28.10	69.0	62.9	82.2	82.4	56.5	54.1	61.4	61.0	87.9	59.5	73.7	107	35	47	47	47	46	47	48	59	31	29	42
October	28.50	29.05	28.04	54.6	49.6	67.3	65.2	45.6	43.2	52.3	50.8	73.1	45.5	59.3	90	29	36	36	38	36	36	50	61	36	36	46
November	28.77	29.22	28.25	40.6	36.2	50.5	47.1	35.3	32.3	41.0	39.1	55.4	33.2	44.3	70	17	27	26	28	28	27	58	67	44	49	54
December	28.54	28.88	28.20	33.8	30.2	43.3	41.4	28.8	26.5	34.8	33.3	48.1	26.2	37.2	76	−5	21	20	23	21	21	60	69	50	51	58
Year	28.51	29.22	27.87	52.3	48.1	62.7	62.7	45.6	43.4	50.1	50.1	68.3	44.7	56.5	110	−5	39	38	39	39	39	62	71	45	46	56

CORPUS CHRISTI, TEX.

Airport [ϕ=27°46′ N.; λ=97°27′ W.] City [ϕ=27°49′ N.; λ=97°25′ W.]

	(1 3)	(1 3)	(1 3)		(1)		(1)		(1)		(1)						(1)		(1)	(1)		(1)		(1)	(1)	(1)
January	30.04	30.58	29.51		56.9		61.8		55.1		57.2	66.1	54.4	60.2	79	44		53		53	53		89		76	82
February	29.97	30.61	29.49		55.5		62.2		52.6		56.0	68.2	51.3	59.8	87	33		49		50	50		81		69	75
March	30.00	30.39	29.64		63.3		68.5		60.9		64.0	73.4	60.9	67.2	94	47		59		61	60		87		79	83
April	29.93	30.38	29.54		66.2		73.4		63.0		66.5	78.4	65.4	71.9	90	41		60		62	61		83		71	77
May	29.86	30.08	29.53		74.9		79.3		72.1		73.7	84.6	73.2	78.9	89	67		71		71	71		87		77	82
June	29.88	30.06	29.65		77.0		83.0		74.6		76.5	87.9	75.9	81.9	91	68		74		74	74		89		74	82
July	29.92	30.10	29.72		75.8		85.7		74.7		70.6	90.2	77.9	84.0	99	75		74		73	74		95		67	76
August	29.92	30.06	29.74		74.6		85.0		73.6		77.0	89.9	77.8	83.8	94	74		73		74	74		96		70	83
September	29.93	30.12	29.76		72.2		81.1		71.2		74.5	87.7	74.3	81.0	94	59		71		72	71		96		74	85
October	30.00	30.32	29.78		66.9		74.9		64.3		68.2	81.3	69.3	75.3	90	51		62		64	63		86		71	79
November	30.18	30.57	29.94		55.3		63.9		52.1		57.1	69.9	56.2	63.0	81	46		49		52	50		80		66	73
December	30.05	30.40	29.71		52.7		61.9		50.8		56.7	69.1	54.4	61.8	81	35		49		52	50		88		73	80
Year	29.97	30.61	29.49		65.9		73.4		63.8		66.5	78.9	65.9	72.4	99	33		62		63	63		88		72	80

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 822 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 20 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

COLUMBUS, OHIO

Airport [H=815 ft.; H_b=833 ft.; H_t=5 ft.; H_r=3 ft.; H_a=45 ft.] City [H=724 ft.; H_b=822 ft.; H_t=90 ft.; H_r=88 ft.; H_a=110 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.17	1.71	6.9	8.4	10.9	S.	39	SW.	3	1	6	24	14	12	17	9	0	3	2	1	1	6	0	0	19	0	1
February	3.92	1.18	9.2	6.6	11.8	S.	49	S.	1	7	6	15	15	14	8	6	0	2	2	1	0	7	0	0	21	0	0
March	2.41	.73	T	5.8	11.6	S.	37	SW.	3	8	12	11	10	9	4	0	0	2	2	0	0	2	0	0	19	0	2
April	4.62	1.50	.2	7.0	11.6	S.	40	SW.	5	7	6	17	17	13	6	1	0	3	0	0	0	0	0	0	9	0	5
May	.33	.15	.0	5.0	8.1	S.	31	SW.	0	10	14	7	7	3	0	0	0	1	0	0	0	0	4	0	0	0	3
June	6.06	1.55	.0	6.4	8.7	S.	37	SW.	3	7	9	14	15	12	0	0	0	1	1	0	0	0	4	0	0	0	12
July	2.55	.66	.0	7.8	6.9	S.	37	SW.	1	8	10	13	11	9	0	0	0	2	2	0	0	0	6	1	0	0	7
August	.49	.28	.0	4.1	7.7	S.	41	S.	1	12	16	3	4	2	0	0	0	3	1	3	0	0	3	0	0	0	2
September	1.39	.84	.0	3.9	8.9	S.	33	SW.	3	13	11	6	6	4	0	0	0	0	0	0	0	0	9	7	0	0	5
October	3.17	2.01	T	4.6	9.7	S.	31	W.	0	16	5	10	4	4	1	0	0	1	0	0	0	0	0	0	2	0	2
November	1.06	.56	T	5.8	7.8	S.	29	S.	0	12	4	14	6	5	2	0	0	6	2	0	0	0	0	0	11	0	0
December	1.20	.50	3.1	7.8	11.3	S.	30	SW.	0	5	3	23	11	4	13	6	0	4	2	2	2	4	0	0	22	0	0
Year	30.37	2.01	19.4	6.1	9.6	S.	49	S.	20	106	102	157	120	91	51	22	0	28	14	7	3	19	26	8	103	0	39

CONCORD, N. H.

[H=270 ft.; H_b=288 ft.; H_t=54 ft.; H_r=56 ft.; H_a=72 ft.]

January	3.06	1.50	18.1	7.5	6.3	NW.	27	NW.	0	5	6	20	10	7	13	8	0	5	4	0	0	19	0	0	31	5	0
February	2.70	.69	8.3	6.6	6.0	N.	22	NW.	0	7	7	14	13	10	16	8	0	9	3	0	2	12	0	0	28	4	1
March	3.16	.71	20.0	5.7	6.7	NW.	26	NW.	0	11	6	14	14	11	13	9	0	9	5	0	1	11	0	0	26	0	0
April	4.22	1.03	5.3	7.0	6.3	W.	20	NW.	0	6	10	14	16	13	5	4	0	7	6	0	1	0	0	0	17	0	1
May	1.98	.64	.0	4.9	5.8	SE.	19	W.	0	13	10	8	7	4	0	0	0	3	1	1	0	0	0	0	5	0	4
June	3.61	.71	.0	4.9	5.5	SE.	19	NW.	0	12	11	7	11	10	0	0	0	4	0	0	0	0	0	0	0	0	4
July	1.41	.43	.0	4.5	5.2	SE.	24	NW.	0	12	16	3	9	8	0	0	0	7	6	4	1	0	7	2	0	0	6
August	5.04	1.64	.0	5.4	4.6	SE.	15	SW.	0	11	11	9	8	6	0	0	0	12	10	6	2	0	2	0	0	0	6
September	2.25	1.54	.0	5.1	5.3	N.	19	NW.	0	11	10	9	9	5	0	0	0	8	11	6	5	0	2	1	0	0	2
October	2.77	1.80	T	6.1	6.0	NW.	25	W.	0	10	7	14	12	8	1	0	0	9	7	5	3	0	0	0	8	0	2
November	.50	.48	1.0	3.8	6.8	NW.	21	NW.	0	14	11	5	4	2	6	2	0	2	1	1	0	1	0	0	22	0	0
December	2.58	.84	9.2	6.7	6.4	NW.	28	NW.	0	8	6	17	11	7	11	7	0	4	2	2	0	11	0	0	28	0	0
Year	33.28	1.80	61.9	5.7	5.9	NW.	28	NW.	0	120	111	134	124	91	65	38	0	79	56	25	15	54	11	3	165	9	26

CONCORDIA, KANS.

[H=1,375 ft.; H_b=1,392 ft.; H_t=50 ft.; H_r=42 ft.; H_a=58 ft.]

January	0.40	0.25	4.5	4.7	9.3	W.	30	NW.	0	12	9	10	6	3	7	4	0	2	1	0	0	4	0	0	25	0	0
February	1.17	.87	9.3	3.9	9.9	N.	29	NE.	0	17	3	8	5	3	7	5	1	0	0	0	0	8	0	0	28	4	1
March	1.93	1.20	8.0	5.1	8.7	SW.	31	N.	0	12	7	12	11	7	5	5	2	4	2	2	2	1	0	0	17	0	3
April	2.57	1.28	.4	5.4	10.0	NW.	29	NW.	0	11	9	10	10	8	3	1	1	1	0	0	0	0	1	0	4	0	5
May	3.56	1.41	.0	4.6	8.2	S.	29	NW.	0	11	13	7	9	7	0	0	2	0	0	0	0	0	3	1	0	0	6
June	3.33	1.11	.0	4.2	8.4	S.	26	S.	0	11	13	6	9	8	0	0	2	1	0	0	0	0	8	3	0	0	14
July	.34	.18	.0	3.5	8.0	S.	27	SW.	0	18	9	4	6	3	0	0	0	3	1	0	0	0	26	19	0	0	9
August	4.37	1.72	.0	4.5	7.9	SE.	19	SE.	0	14	12	5	10	8	0	0	0	7	1	0	0	0	14	5	0	0	12
September	.60	.59	.0	2.4	8.8	SW.	24	NW.	0	23	3	4	3	2	0	0	0	0	0	0	0	0	15	9	0	0	2
October	.60	.60	.0	2.9	8.5	SW.	24	S.	0	20	7	4	1	1	0	0	0	0	0	0	0	0	1	0	1	0	1
November	.48	.39	T	3.6	7.1	SW.	26	SW.	0	18	6	6	2	2	1	0	0	5	3	1	0	0	0	0	10	0	0
December	.54	.27	4.8	4.3	7.3	W.	26	NW.	0	14	10	7	5	2	7	4	0	0	0	0	0	9	0	0	17	1	0
Year	19.89	1.72	27.0	4.1	8.5	SW.	31	N.	0	181	101	83	77	54	30	19	8	23	8	3	2	22	68	37	102	5	53

CORPUS CHRISTI, TEX.

Airport [H=40 ft.; H_b=44 ft.; H_t=4 ft.; H_r=3 ft.; H_a=33 ft.] City [H=19 ft.; H_b=20 ft.; H_t=11 ft.; H_r=63 ft.; H_a=78 ft.]

January	1.78	0.56	0.0	6.1	10.8	S.	31	NW.	0	10	5	16	11	8	0	0	0	7	5	5	3	0	0	0	0	0	1
February	.14	.06	.0	6.1	12.4	N.	33	N.	2	6	12	10	6	1	0	0	0	5	2	2	2	0	0	0	0	0	0
March	.86	.69	.0	5.7	13.0	S.	32	S.	1	10	11	10	5	4	0	0	0	6	5	3	3	0	1	0	0	0	3
April	1.53	1.52	.0	5.0	14.2	S.	35	S.	4	10	10	10	2	1	0	0	0	1	1	0	0	0	1	0	0	0	1
May	2.22	1.27	.0	5.5	12.0	SE.	38	NE.	1	8	13	10	7	6	0	0	0	1	1	1	0	0	0	0	0	0	5
June	5.19	2.39	.0	5.1	12.3	S.	26	S.	0	11	10	9	7	5	0	0	0	0	0	0	0	0	4	0	0	0	5
July	.75	.64	.0	3.5	12.9	S.	26	S.	0	19	8	4	4	3	0	0	0	0	0	0	0	0	19	3	0	0	5
August	1.36	1.36	.0	4.2	10.7	S.	27	SE.	0	13	14	4	2	2	0	0	0	1	0	0	0	0	17	0	0	0	3
September	2.65	.95	.0	3.7	10.8	S.	30	SE.	0	17	9	4	11	8	0	0	0	2	1	1	1	0	6	0	0	0	7
October	1.14	1.10	.0	4.0	11.1	SE.	30	NE.	0	15	10	6	3	2	0	0	0	4	3	3	3	0	0	0	0	0	1
November	.06	.05	.0	6.7	10.1	N.	25	N.	0	7	5	18	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
December	2.06	1.69	.0	5.2	9.6	S.	27	S.	0	13	8	10	6	4	0	0	1	9	6	5	5	0	0	0	0	0	2
Year	19.74	2.39	.0	5.1	11.6	S.	38	NE.	8	139	115	111	66	45	0	0	1	36	24	20	17	0	48	3	0	0	33

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DALLAS, TEX.

Airport [ϕ=32°51′ N.; λ=96°52′ W.] City [ϕ=32°46′ N.; λ=96°47′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.50	29.99	28.96	46.5	42.2	55.4	53.2	42.9	39.4	47.2	45.7	59.5	41.9	50.7	74	28	38	36	38	38	38					
February	29.48	30.07	28.88	42.1	38.7	49.3	48.3	38.9	36.7	42.7	42.2	55.4	35.7	45.6	78	18	34	34	35	34	34					
March	29.49	29.88	29.04	54.8	49.3	66.5	66.0	48.8	46.0	54.9	55.0	69.9	49.4	59.6	85	34	42	42	44	44	43					
April	29.42	29.87	29.00	59.2	55.3	37.2	70.0	53.9	52.0	59.0	58.7	74.3	54.0	64.2	86	37	49	49	50	50	50					
May	29.35	29.61	29.00	69.6	66.2	82.2	80.5	63.7	62.9	68.7	68.0	84.3	64.4	74.4	94	55	60	61	61	62	61					
June	29.36	29.57	29.15	76.3	74.7	87.4	85.8	71.2	71.0	74.0	73.7	89.0	72.1	80.6	98	67	69	69	68	68	68					
July	29.40	29.60	29.28	81.7	76.7	93.6	93.4	72.2	71.3	75.2	74.6	95.8	76.4	86.1	103	68	68	69	67	66	67	64	77	43	43	57
August	29.38	29.58	29.17	80.4	74.9	92.6	92.5	71.5	69.9	74.0	73.4	95.1	74.9	85.0	104	65	67	67	66	64	66	65	78	42	41	57
September	29.42	29.70	29.17	78.0	72.0	91.5	89.9	66.9	65.5	71.2	69.3	93.3	72.6	83.0	106	50	60	62	60	58	60	56	71	36	35	50
October	29.50	29.86	29.26	65.0	59.5	78.8	75.5	57.4	55.4	62.4	61.0	80.8	60.5	70.6	93	42	51	52	50	50	51	62	75	38	42	55
November	29.70	30.10	29.37	49.9	46.0	59.2	56.9	45.5	43.6	50.5	49.4	62.1	45.9	54.0	82	36	40	41	42	42	41	72	83	57	59	68
December	29.51	29.91	29.11	45.8	41.0	59.2	55.3	42.2	38.9	49.0	47.1	63.1	42.4	52.8	80	24	38	36	38	38	38	75	84	49	55	66
Year	29.46	30.13	28.88	62.4	58.0	71.1	72.3	56.2	54.4	60.7	59.8	76.9	57.5	67.2	106	18	51	52	52	51	51					

DAVENPORT, IOWA

[ϕ=41°30′ N.; λ=90°38′ W.]

January	29.31	29.74	28.67		27.9	32.9	33.5		26.4	30.2	31.0	38.1	24.5	31.3	61	5		24	26	27	28		83	74	76	78
February	29.38	29.92	28.62		20.0	27.4	29.0		18.4	23.8	25.8	35.5	16.0	25.8	56	−2		14	16	19	16		76	61	65	67
March	29.39	29.86	28.86		31.3	43.4	44.2		29.4	36.8	37.8	48.5	28.9	38.7	83	9		26	28	30	28		80	56	59	65
April	29.29	29.85	28.60		41.2	51.7	52.9		38.0	43.4	44.4	56.7	38.9	47.8	83	22		34	34	35	34		75	54	54	61
May	29.28	29.72	28.90		58.5	73.0	72.6		53.9	59.8	60.1	77.8	55.9	66.8	91	38		50	50	51	50		74	46	49	56
June	29.26	29.65	28.83		66.9	77.7	78.5		63.4	67.0	67.3	82.2	64.3	73.2	94	52		61	61	61	61		82	59	57	66
July	29.32	29.59	29.00		69.8	82.2	83.7		65.1	69.4	70.6	87.2	67.6	77.4	98	60		63	63	64	63		79	54	54	62
August	29.32	29.63	29.02		65.3	78.5	77.6		62.3	67.1	67.5	83.0	63.4	73.2	92	56		60	61	62	61		85	56	62	68
September	29.36	29.73	28.90		61.6	77.4	75.2		56.9	62.4	61.8	82.2	59.5	70.8	99	37		54	53	53	53		76	44	48	56
October	29.34	29.92	28.96		48.5	61.5	59.3		44.0	50.2	50.0	67.2	44.8	56.0	89	28		39	39	41	40		71	47	54	57
November	29.61	30.12	29.13		35.6	47.2	44.8		33.2	39.7	38.9	50.2	33.5	41.8	68	24		30	30	31	30		78	52	60	63
December	29.31	29.75	28.91		30.1	38.9	37.1		27.6	33.2	32.1	42.6	26.9	34.8	64	4		24	25	24	24		76	57	59	64
Year	29.35	30.12	28.60		46.4	57.6	57.4		43.2	48.6	48.9	62.6	43.7	53.1	99	−2		40	40	42	41		78	55	58	64

DAYTON, OHIO

[ϕ=39°46′ N.; λ=84°12′ W.]

January	29.04	29.41	28.33		33.1		38.0		31.1		33.9	42.9	28.9	35.9	62	13		28		29	29		81		72	77
February	29.09	29.60	28.55		30.7		35.4		29.1		31.5	43.0	24.6	33.8	70	6		26		25	26		83		67	75
March	29.09	29.56	28.37		37.0		46.0		33.9		39.2	52.6	32.9	42.8	81	17		29		30	30		74		56	65
April	29.00	29.59	28.54		43.7		51.6		40.0		44.5	56.8	40.4	48.6	80	25		35		37	36		72		59	67
May	29.04	29.34	28.54		58.4		71.9		53.2		59.0	76.0	55.0	65.5	92	35		49		49	49		71		46	59
June	29.01	29.32	28.72		68.8		76.8		65.0		67.9	81.9	64.9	73.4	89	51		63		63	63		82		65	73
July	29.01	29.29	28.79		68.6		78.7		64.5		68.2	83.6	65.1	74.4	94	55		62		62	62		81		60	70
August	29.04	29.29	28.76		66.0		78.9		62.6		67.0	83.6	63.6	73.6	90	56		61		60	61		83		55	69
September	29.08	29.40	28.80		62.7		77.4		57.8		60.2	84.2	59.5	71.8	98	45		55		53	54		76		45	60
October	29.10	29.50	28.71		50.0		61.1		46.3		51.2	67.5	47.1	57.3	87	28		43		44	43		76		52	64
November	29.28	29.64	28.89		36.5		44.2		33.7		38.8	49.5	34.4	42.0	66	27		30		32	31		76		64	70
December	28.99	29.41	28.59		32.8		37.1		30.6		33.2	42.0	29.5	35.8	59	4		27		28	27		79		69	74
Year	29.06	29.64	28.33		49.0		58.1		45.8		49.6	63.6	45.5	54.6	98	4		42		43	43		78		59	69

DEL RIO, TEX.

[ϕ=29°20′ N.;λ=100°53′ W.]

January	29.02	29.58	28.52	51.3	47.4	56.8	60.9	46.9	44.4	48.8	50.7	64.3	44.6	54.4	76	34	42	41	40	40	41	73	80	58	51	66
February	28.97	29.56	28.44	50.1	44.5	56.0	61.0	43.1	40.3	45.6	47.3	65.4	41.8	53.6	85	30	33	34	32	30	32	56	69	45	36	52
March	28.98	29.34	28.53	63.8	56.8	68.2	75.7	52.6	50.0	55.2	56.9	77.7	55.2	66.4	96	42	41	42	42	38	41	48	62	46	33	47
April	28.91	29.41	28.51	69.4	61.0	76.5	82.3	56.5	53.5	59.6	59.9	84.5	59.8	72.2	98	33	45	46	46	41	44	46	62	38	27	43
May	28.83	29.14	28.51	76.3	70.3	82.0	87.1	66.1	65.7	69.0	67.8	89.8	68.8	79.3	100	60	60	63	62	56	60	60	79	54	40	58
June	28.84	29.10	28.61	81.2	75.1	86.6	91.6	71.2	70.4	72.7	71.5	93.6	74.5	84.0	99	64	66	68	66	62	66	62	80	52	38	58
July	28.90	29.14	28.74	85.0	77.2	89.0	94.5	70.6	70.0	73.2	71.8	97.0	76.7	86.8	108	70	63	66	66	60	64	51	71	49	34	51
August	28.92	29.08	28.74	79.1	74.1	85.7	88.0	70.7	70.1	73.2	72.5	91.4	73.1	82.2	96	68	67	68	68	65	67	68	82	57	49	64
September	28.94	29.18	28.70	77.9	71.2	85.9	88.2	67.0	65.8	70.1	68.8	91.8	70.7	81.2	100	62	61	63	62	58	61	58	75	46	40	55
October	29.01	29.45	28.72	69.7	64.8	76.0	78.3	61.9	60.5	64.5	64.2	81.6	63.5	72.6	92	45	57	57	57	55	56	65	78	53	47	61
November	29.20	29.59	28.88	54.4	50.9	61.1	61.5	49.9	48.0	52.7	53.0	65.1	49.0	57.0	78	41	46	45	45	46	46	74	82	58	58	68
December	29.06	29.52	28.74	51.4	46.4	59.5	62.3	46.4	42.9	49.6	50.8	66.5	44.1	55.3	83	29	41	39	39	40	40	70	78	51	57	62
Year	28.96	29.59	28.44	67.5	61.6	73.6	77.6	58.6	56.8	61.2	61.3	80.7	60.2	70.4	108	29	52	53	52	49	52	61	75	51	42	57

[1] Airport data.

[2] Pressure at airport adjusted to the old (city) station elevation of 512 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DALLAS, TEX.

Airport [H=474 ft.; H_b=488 ft.; H_t=6 ft.; H_r=3 ft.; H_a=46 ft.] City [H=459 ft.; H_b=512 ft.; H_t=220 ft.; H_r=194 ft.; H_a=227 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.75	1.00	0.0	5.7	13.3	SE.	60	SW.	4	10	9	12	9	6	0	0	1	0	0	0	0	0	0	0	1	0	2
February	4.35	1.06	.3	5.3	13.5	SE.	54	SW.	3	13	2	13	14	11	2	1	1	5	0	0	2	0	0	0	9	0	5
March	2.49	1.21	.0	5.6	13.3	SE.	43	W.	3	11	6	14	7	6	0	0	2	1	0	0	0	0	0	0	0	0	5
April	3.33	2.34	.0	4.8	14.2	SE.	42	N.	4	11	9	10	5	3	0	0	1	0	0	0	0	0	0	0	0	0	4
May	2.65	1.24	.0	4.8	11.1	SE.	42	E.	2	13	12	6	5	5	0	0	0	0	0	0	0	0	6	0	0	0	9
June	2.84	2.02	.0	5.6	12.1	SE.	40	NE.	2	7	13	10	10	7	0	0	0	0	0	0	0	0	17	2	0	0	9
July	1.11	1.05	.0	3.0	11.3	S.	39	NE.	1	19	7	5	3	3	0	0	0	0	0	0	0	0	30	20	0	0	3
August	1.16	.57	.0	4.3	9.7	S.	44	N.	3	14	13	4	5	5	0	0	0	0	0	0	0	0	29	18	0	0	8
September	.18	.18	.0	2.8	10.5	S.	33	N.	1	20	6	4	1	1	0	0	0	0	0	0	0	0	27	10	0	0	2
October	2.13	2.11	.0	3.7	11.9	S.	33	N.	1	16	7	8	3	2	0	0	0	0	0	0	0	0	5	0	0	0	1
November	4.87	1.88	.0	6.1	10.7	N.	33	NE.	1	9	7	14	8	8	0	0	0	2	0	0	1	0	0	0	0	0	1
December	.65	.42	.0	3.1	11.6	W.	43	SW.	1	21	3	7	4	2	0	0	0	1	0	0	1	0	0	0	4	0	0
Year	28.51	2.34	.3	4.6	11.9	SE.	60	SW.	26	164	94	107	74	59	2	1	5	9	0	0	4	0	114	50	14	0	49

DAVENPORT, IOWA

[H=579 ft.; H_b=606 ft.; H_t=66 ft.; H_r=60 ft.; H_a=161 ft.]

January	1.40	0.44	6.8	7.6	10.1	NW.	34	NW.	2	3	12	16	10	7	14	6	0	14	3	2	1	9	0	0	25	0	1
February	2.06	.95	11.2	5.9	12.3	NW.	32	NW.	1	8	8	12	9	6	13	4	0	7	1	0	0	10	0	0	27	1	1
March	2.92	1.55	4.4	5.1	11.6	W.	35	NW.	1	12	9	10	10	8	9	4	0	8	2	1	1	7	0	0	20	0	0
April	2.61	1.02	T	6.4	11.7	NW.	41	SE.	1	6	11	13	13	10	2	0	2	9	0	0	0	0	0	0	8	0	6
May	2.65	.95	.0	5.2	9.4	SW.	27	NW.	0	10	12	9	7	7	0	0	0	5	0	0	0	0	2	0	0	0	5
June	3.76	.77	.0	5.6	9.5	SW.	41	NW.	3	9	9	12	11	10	0	0	0	5	2	1	1	0	4	0	0	0	11
July	3.86	1.68	.0	5.1	8.2	SW.	34	NW.	2	11	10	10	5	5	0	0	0	4	0	0	0	0	11	4	0	0	6
August	5.60	1.90	.0	5.2	7.7	W.	38	SE.	1	12	10	9	11	10	0	0	0	9	1	1	0	0	4	0	0	0	8
September	.70	.32	.0	3.1	9.6	SW.	26	S.	0	21	4	5	4	3	0	0	0	1	0	0	0	0	9	4	0	0	2
October	1.91	.69	T	4.7	10.7	SW.	27	S.	0	13	8	10	8	6	1	0	1	0	0	0	0	0	0	0	4	0	4
November	.94	.63	T	5.2	9.3	SW.	27	SW.	0	11	9	10	6	3	1	0	0	8	2	2	1	0	0	0	15	0	1
December	.09	.29	T	5.5	10.5	NW.	32	NW.	1	9	11	11	2	2	8	0	0	7	2	0	0	7	0	0	23	0	0
Year	28.50	1.90	22.4	5.4	10.0	SW.	41	NW.	12	125	113	127	96	77	48	14	3	77	13	7	4	33	30	8	122	1	45

DAYTON, OHIO

[H=743 ft.; H_b=900 ft.; H_t=186 ft.; H_r=179 ft.; H_a=213 ft.]

January	3.49	1.74	9.0	8.5	11.7	SW.	46	SW.	4	2	5	23	12	10	16	8	2	6	3	1	1	7	0	0	21	0	1
February	4.38	1.00	12.4	6.6	12.6	SW.	47	SW.	3	6	8	14	15	15	8	7	0	5	0	0	0	6	0	0	20	0	0
March	2.79	1.10	.1	5.6	12.1	W.	37	SW.	2	10	10	11	10	7	4	0	0	6	2	2	1	2	0	0	19	0	1
April	4.68	1.88	T	6.4	12.3	SW.	43	SW.	3	7	8	15	15	11	5	2	0	3	0	0	0	0	0	0	6	0	5
May	2.56	1.57	.0	4.9	8.7	SW.	33	SW.	1	11	15	5	8	6	0	0	0	1	0	0	0	0	2	0	0	0	3
June	6.26	1.66	.0	5.9	9.2	SW.	48	W.	4	6	13	11	15	12	0	0	0	1	0	0	0	0	0	0	0	0	12
July	4.17	1.52	.0	6.1	7.1	SW.	29	SW.	0	8	11	12	14	11	0	0	0	2	0	0	1	0	4	0	0	0	10
August	1.47	1.12	.0	3.8	7.5	N.	27	SW.	0	16	11	4	7	4	0	0	0	0	0	0	0	0	0	0	0	0	3
September	1.23	1.21	.0	3.4	9.1	SW.	36	SW.	3	20	7	3	3	2	0	0	0	2	1	1	1	0	10	6	0	0	2
October	2.25	1.29	.0	4.0	10.8	SW.	36	NW.	2	16	8	7	6	4	0	0	0	1	1	0	0	0	0	0	3	0	1
November	.91	.58	T	5.6	9.0	SW.	36	SW.	1	11	6	13	5	4	2	0	0	5	2	0	0	0	0	0	11	0	0
December	1.46	.66	5.4	7.4	12.0	SW.	32	NW.	1	6	6	19	10	5	12	6	0	1	1	2	1	7	0	0	20	0	0
Year	35.65	1.88	26.9	5.7	10.2	SW.	48	W.	24	119	108	137	120	91	47	23	2	33	10	6	5	22	16	6	100	0	38

DEL RIO, TEX.

[H=957 ft.; H_b=960 ft.; H_t=63 ft.; H_r=56 ft.; H_a=71 ft.]

January	1.46	1.06	0.0	4.6	8.6	SE.	31	NW.	0	14	6	11	7	4	0	0	0	2	2	0	0	0	0	0	0	0	1
February	.14	.08	.0	4.1	10.6	SE.	43	W.	1	14	7	7	4	1	0	0	0	1	1	0	0	0	0	0	2	0	1
March	.75	.53	.0	5.8	10.1	SE.	29	NW.	0	9	11	11	4	2	0	0	1	1	0	0	0	0	4	1	0	0	1
April	.52	.33	T	4.7	10.4	SE.	38	NW.	1	10	13	7	5	3	1	0	1	0	0	0	0	0	9	2	0	0	4
May	1.59	.64	.0	5.1	10.9	SE.	31	E.	0	8	16	7	6	4	0	0	2	0	0	0	0	0	17	7	0	0	7
June	1.27	.85	.0	5.0	11.8	SE.	40	NW.	1	8	16	6	4	3	0	0	0	0	0	0	0	0	27	11	0	0	4
July	.68	.60	.0	4.1	11.3	SE.	27	NE.	0	13	15	3	3	2	0	0	0	0	0	0	0	0	29	23	0	0	2
August	4.47	2.20	.0	5.0	8.1	SE.	41	E.	1	11	11	9	11	10	0	0	1	0	0	0	0	0	26	4	0	0	10
September	1.07	.53	.0	3.4	9.0	SE.	34	N.	2	16	11	3	5	3	0	0	0	0	0	0	0	0	24	8	0	0	4
October	1.12	.48	.0	5.8	8.4	SE.	21	SE.	0	10	8	13	6	6	0	0	0	0	0	0	0	0	3	0	0	0	3
November	1.59	.90	.0	7.3	7.3	SE.	24	SE.	0	4	8	18	7	4	0	0	0	2	2	0	0	0	0	0	0	0	3
December	1.47	1.16	.0	4.7	6.2	NW.	25	E.	0	14	8	9	3	3	0	0	0	2	0	0	0	0	0	0	1	0	0
Year	16.13	2.20	T	5.0	9.4	SE.	43	W.	6	131	130	104	65	45	1	0	5	8	5	0	0	0	139	56	3	0	40

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DENVER, COLO.

Airport [ϕ=39°46′ N.; λ=104°53′ W.] City [ϕ=39°45′ N.; λ=105°00′ W.]

Month	Pressure			Temperature (° F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	24.63	25.10	23.99	----	28.3	39.9	37.3	----	24.0	31.1	30.5	43.3	23.5	33.4	64	8	----	16	17	20	18	----	60	40	51	50
February	24.58	24.97	24.12	----	19.3	32.0	30.6	----	16.6	24.7	24.8	36.8	14.9	25.8	58	−2	----	10	10	14	11	----	67	41	52	53
March	24.68	25.02	24.21	----	32.6	46.2	47.0	----	28.2	36.0	37.5	50.7	29.9	40.3	68	9	----	22	23	26	24	----	64	43	47	51
April	24.70	25.11	24.40	----	40.8	55.1	58.2	----	35.1	41.4	43.4	61.6	37.3	49.4	82	11	----	28	26	28	27	----	64	38	36	46
May	24.68	25.05	24.37	----	50.5	69.0	70.5	----	43.0	49.9	50.6	74.3	48.7	61.5	90	33	----	35	32	32	33	----	58	28	28	38
June	24.69	24.99	24.24	----	56.7	76.9	77.1	----	47.5	54.3	54.6	82.6	55.0	68.8	94	45	----	39	35	36	37	----	54	25	25	35
July	24.80	25.06	24.56	70.6	62.2	84.9	87.2	55.4	51.9	59.1	59.3	90.2	64.0	77.1	102	59	44	44	41	38	42	42	53	23	20	34
August	24.81	25.10	24.51	65.7	58.0	79.3	80.1	53.9	50.3	57.3	57.7	85.0	58.5	71.8	92	46	45	44	41	41	43	50	62	29	28	42
September	24.80	25.24	24.49	60.7	54.1	74.5	75.4	49.6	46.1	54.4	55.0	80.1	53.9	67.0	93	39	40	39	38	39	39	50	59	30	30	42
October	24.75	25.08	24.30	47.2	41.3	61.8	60.9	38.1	34.4	44.8	44.7	67.9	41.5	54.7	79	23	27	25	27	27	26	48	54	30	31	41
November	24.89	25.09	24.50	33.7	31.0	50.0	47.4	28.4	26.5	37.3	35.9	55.9	31.6	43.8	70	19	20	19	20	20	20	56	59	33	35	46
December	24.74	25.05	24.46	31.6	31.2	45.7	42.1	25.2	25.0	33.7	31.7	52.9	28.8	40.8	79	6	14	14	17	17	16	48	52	37	41	44
Year	24.73	25.24	23.99	----	42.2	59.6	59.5	----	35.7	43.7	43.8	65.1	40.6	52.9	102	−2	----	28	27	28	28	----	59	33	35	44

DES MOINES, IOWA

Airport [ϕ=41°32′ N; λ=93°37′ W.] City [ϕ=41°35′ N; λ=93°37′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.04	29.57	28.52	----	27.1	34.4	33.9	----	25.6	31.1	31.1	39.5	22.2	30.8	60	4	----	23	26	26	25	----	83	70	74	76
February	29.12	29.63	28.43	----	16.1	27.1	27.4	----	14.9	23.2	24.2	32.1	10.8	21.4	53	−7	----	12	15	18	15	----	82	60	65	69
March	29.13	29.56	28.63	----	30.3	43.6	43.4	----	28.9	37.0	37.9	48.1	27.2	37.6	83	6	----	26	29	32	29	----	85	59	66	70
April	29.04	29.53	28.64	----	41.7	55.6	56.0	----	38.5	45.6	45.9	59.9	39.1	49.5	86	22	----	35	35	35	35	----	77	49	48	58
May	29.00	29.45	28.65	----	58.3	76.5	77.3	----	53.2	60.8	61.1	80.8	56.0	68.4	97	43	----	49	49	49	49	----	71	40	39	50
June	28.99	29.36	28.60	----	66.7	78.6	78.3	----	63.5	68.2	67.9	82.5	63.0	72.8	94	53	----	62	63	62	62	----	85	61	60	69
July	29.03	29.29	28.76	72.4	68.5	84.1	85.0	67.0	64.9	70.4	71.7	89.5	67.5	78.5	105	60	64	63	64	65	64	76	83	52	53	66
August	29.04	29.31	28.77	66.4	63.2	76.7	76.6	62.1	60.7	65.8	66.2	81.8	61.6	71.7	89	53	60	59	60	60	60	79	87	58	59	71
September	29.06	29.43	28.57	64.8	59.5	77.2	76.7	57.0	53.7	61.2	60.9	83.6	57.4	70.5	102	35	51	49	51	50	50	64	71	42	41	54
October	29.04	29.62	28.65	50.5	45.8	61.3	59.8	44.2	42.0	49.7	49.1	67.5	42.1	54.8	92	26	37	38	38	38	38	62	73	45	47	57
November	29.32	29.80	28.77	37.1	33.8	47.5	43.8	33.5	31.2	40.1	38.1	51.8	31.3	41.6	70	19	28	27	31	30	29	70	77	54	60	65
December	29.05	29.49	28.66	31.1	28.4	39.1	35.4	27.9	26.1	33.1	30.3	43.8	24.2	34.0	69	0	23	22	24	22	23	73	79	57	60	67
Year	29.07	29.80	28.43	----	45.0	58.5	57.8	----	41.9	48.8	48.7	63.4	41.9	52.6	105	−7	----	39	40	41	40	----	79	54	56	63

DETROIT, MICH. (Airport)

[ϕ=42°24′ N; λ=83°00′ W.]

	(4)	(4)	(4)																						
January	29.17	29.55	28.64	26.8	26.4	30.4	27.8	25.4	25.0	27.9	26.2	34.4	21.2	27.8	58	2	23	22	24	23	23	83	84	74	81	80
February	29.22	29.80	28.64	25.7	24.7	30.4	27.7	24.0	23.5	27.5	25.6	35.1	18.7	26.9	56	6	21	21	22	22	22	80	85	70	77	78
March	29.26	29.74	28.70	30.7	30.0	37.1	34.8	29.1	28.3	33.2	31.9	40.9	26.1	33.5	79	10	26	25	27	27	26	84	82	68	73	77
April	29.14	29.69	28.63	41.1	39.2	48.3	47.1	38.0	36.9	42.0	41.4	52.3	36.1	44.2	81	20	34	34	35	35	34	77	82	62	63	71
May	29.18	29.54	28.62	55.5	56.1	69.9	65.4	50.7	51.0	57.6	55.7	73.1	49.7	61.4	91	33	46	46	48	48	47	73	71	48	55	62
June	29.17	29.46	28.74	65.2	65.9	76.2	73.5	61.0	61.3	65.5	64.5	80.0	60.3	70.2	89	47	58	58	60	60	59	79	77	58	63	69
July	29.20	29.42	28.81	67.9	68.6	80.8	77.9	62.9	63.1	67.0	66.2	83.9	62.8	73.4	96	51	60	60	59	60	60	76	74	50	55	64
August	29.19	29.51	28.91	67.0	66.8	79.9	76.2	62.9	63.1	65.8	65.8	83.2	62.9	73.0	92	56	61	61	58	60	60	80	82	48	58	67
September	29.24	29.67	28.85	61.8	59.1	73.8	67.4	57.2	55.9	61.4	59.0	77.3	54.5	65.9	100	39	54	54	54	53	54	77	83	52	63	69
October	29.22	29.65	28.71	49.7	46.9	60.1	55.0	46.0	44.3	51.1	48.6	62.8	43.0	52.9	89	29	42	42	43	43	42	76	82	55	64	69
November	29.42	29.87	28.90	35.5	34.5	44.5	40.6	33.2	32.6	38.8	36.8	46.8	31.0	38.9	65	21	30	30	31	32	31	81	83	61	72	74
December	29.09	29.59	28.64	32.6	31.6	36.1	34.3	30.6	29.9	32.9	31.6	38.6	28.3	33.4	54	8	28	27	28	28	28	81	82	72	76	78
Year	29.21	29.87	28.62	46.6	45.8	55.6	52.3	43.4	42.9	47.6	46.1	59.0	41.2	50.1	100	2	40	40	41	41	40	79	81	60	67	72

DEVILS LAKE, N. DAK.

[ϕ=48°07′ N; λ=98°52′ W.]

January	28.32	28.71	27.87	8.1	7.3	12.3	10.6	7.9	6.9	11.5	10.1	18.8	0.0	9.4	36	−22	6	6	9	8	7	91	92	85	90	91
February	28.42	28.91	27.98	−5.2	−9.1	−1.4	−.9	−5.5	−9.3	−1.8	−1.5	6.1	−15.0	−4.4	39	−35	−8	−12	−4	−6	−9	99	89	88	81	85
March	28.45	28.79	27.95	16.9	13.3	24.4	26.4	15.9	12.5	21.8	23.3	30.4	10.5	20.4	70	−14	14	11	17	18	14	88	89	73	73	81
April	28.40	28.79	27.78	35.3	30.1	44.7	47.3	31.7	28.5	37.1	37.9	50.9	27.9	39.4	82	3	26	26	27	26	26	70	85	53	46	65
May	28.30	28.70	27.80	53.0	49.1	66.5	67.2	46.7	45.0	53.0	53.0	72.0	46.3	59.2	97	25	40	40	40	39	40	63	74	42	40	57
June	28.30	28.52	27.92	55.3	52.4	66.3	66.4	52.4	50.2	56.6	56.8	70.8	49.5	60.2	87	35	50	48	49	50	49	84	87	57	58	72
July	28.35	28.66	28.04	65.8	61.5	81.0	82.5	60.3	58.0	64.9	65.4	86.4	58.9	72.6	99	46	57	56	55	55	55	74	82	43	41	61
August	28.35	28.60	28.05	62.6	57.1	77.7	78.1	55.7	53.5	61.2	61.3	83.2	54.8	69.0	98	44	50	51	50	50	50	67	80	41	40	60
September	28.37	28.92	27.95	51.9	46.8	65.9	65.4	51.9	44.0	53.5	52.2	71.3	43.6	57.4	93	20	42	41	43	40	41	70	82	47	44	63
October	28.35	28.93	27.95	36.3	34.2	44.0	42.3	33.7	32.2	38.0	37.2	48.2	30.2	39.2	71	11	30	29	31	31	30	79	83	64	66	75
November	28.55	29.06	27.94	29.0	25.8	40.6	36.4	26.4	24.0	33.9	31.5	45.7	22.1	33.9	69	5	22	31	25	24	27	74	80	56	61	71
December	28.35	28.79	27.74	23.7	21.0	27.4	26.0	21.7	19.8	24.5	23.3	33.2	15.8	24.5	64	−13	18	18	20	19	18	80	88	78	80	84
Year	28.38	29.06	27.74	36.1	32.5	45.8	45.6	33.2	30.4	37.8	37.5	51.4	28.7	40.1	99	−35	29	29	30	30	29	78	84	61	60	72

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 5,292 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 860 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 730 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DENVER, COLO.

Airport [H=5,299 ft.; H_b=5,332 ft.; H_t=34 ft.; H_r=32 ft.; H_a=59 ft.] City [H=5,221 ft.; H_b=5,292 ft.; H_t=106 ft.; H_r=98 ft.; H_a=113 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.74	0.52	9.6	5.3	8.1	S.	29	N.	0	12	9	10	6	4	8	5	0	1	1	0	0	1	0	0	28	0	0
February	1.28	.64	16.3	5.0	8.7	S.	34	NE.	1	10	9	9	9	6	10	9	0	2	0	0	0	12	0	0	28	1	0
March	1.01	.54	3.8	4.3	8.4	S.	37	NW.	1	15	11	5	8	6	9	6	0	0	0	0	1	1	0	0	18	0	0
April	.80	.20	3.2	6.1	8.6	S.	35	N.	4	6	10	14	10	6	6	6	0	4	1	0	1	0	0	0	8	0	1
May	1.03	.39	T	4.5	8.4	S.	32	N.	1	11	13	7	8	6	1	1	1	0	0	0	0	0	1	0	0	0	2
June	.57	.38	.0	4.3	8.5	S.	35	NW.	2	9	18	3	5	2	0	0	2	0	0	0	0	0	6	0	0	0	4
July	.08	.08	.0	4.4	8.0	S.	34	N.	1	10	16	5	1	1	0	0	0	0	0	0	0	0	15	7	0	0	5
August	.43	.32	.0	4.7	7.7	S.	26	NW.	0	10	15	6	6	2	0	0	0	0	0	0	0	0	5	0	0	0	6
September	.48	.30	.0	4.5	7.3	S.	23	N.	0	13	8	9	4	3	0	0	0	0	0	0	0	0	2	0	0	0	0
October	.89	.53	5.6	3.0	8.1	S.	28	NE.	0	19	10	2	3	2	2	1	0	0	0	0	0	0	0	0	2	0	0
November	.01	.01	T	3.0	7.0	S.	23	NE.	0	18	8	4	1	0	2	0	0	2	1	1	1	1	0	0	15	0	0
December	.26	.18	4.1	4.9	8.3	S.	28	NE.	0	11	13	7	4	3	8	4	0	3	1	0	0	6	0	0	18	0	0
Year	7.58	.64	42.6	4.5	8.1	S.	37	NW.	10	144	140	81	65	41	46	32	3	12	4	1	3	21	29	7	117	1	18

DES MOINES, IOWA

Airport [H=954 ft.; H_b=963 ft.; H_t=24 ft.; H_r=22 ft.; H_a=33 ft.] City [H=800 ft.; H_b=860 ft.; H_t=5 ft.; H_r=3 ft.; H_a=99 ft.]

January	1.10	0.25	5.6	6.4	9.9	NW.	31	NW.	0	6	11	14	9	6	13	7	1	8	4	1	1	7	0	0	28	0	1
February	2.33	1.45	20.4	4.4	11.8	NW.	32	SW.	1	14	6	8	4	4	14	3	0	3	1	0	0	13	0	0	28	6	0
March	1.80	.67	7.9	5.0	10.6	NW.	32	NW.	1	11	10	10	7	5	8	4	0	7	3	3	2	5	0	0	23	0	0
April	1.26	.72	1.0	5.1	11.9	NW.	30	N.	0	12	9	9	9	8	3	2	0	3	1	0	0	0	0	0	8	0	2
May	1.79	1.53	.0	5.0	9.6	S.	30	SW.	0	12	10	9	7	5	0	0	0	0	0	0	0	0	5	2	0	0	7
June	7.45	1.63	.0	5.6	9.5	SE.	37	NW.	1	8	14	8	12	12	0	0	1	3	2	2	1	0	5	0	0	0	12
July	4.11	2.36	.0	4.2	8.3	SE.	35	N.	1	11	17	3	7	6	0	0	1	4	1	1	0	0	14	4	0	0	8
August	5.58	2.75	.0	5.0	7.6	SE.	30	NW.	0	13	9	9	11	11	0	0	0	5	1	0	0	0	0	0	0	0	9
September	1.20	.54	.0	2.2	9.9	N.	31	NW.	0	21	5	4	5	5	0	0	1	0	0	0	0	0	9	7	0	0	3
October	1.16	.72	.0	3.5	10.6	NW.	30	SW.	0	17	8	6	7	5	0	0	0	3	1	0	0	0	1	0	6	0	2
November	.47	.23	.0	4.2	8.3	SW.	34	S.	1	15	7	8	4	3	0	0	0	6	3	3	3	0	0	0	19	0	0
December	.44	.27	4.2	5.5	9.3	NW.	33	NW.	1	11	8	12	5	3	9	3	0	3	1	1	1	8	0	0	25	0	0
Year	28.69	2.75	39.1	4.7	9.8	SE.	37	NW.	6	151	114	100	87	73	47	19	4	45	18	11	8	33	34	13	137	6	44

DETROIT, MICH. (Airport)

[H=619 ft.; H_b=626 ft.; H_t=5 ft.; H_r=4 ft.; H_a=78 ft.]

January	2.54	0.87	21.1	8.4	11.8	SW.	40	W.	4	3	5	23	20	14	22	15	1	15	4	2	0	16	0	0	25	0	0
February	4.70	2.41	10.8	6.8	12.6	SW.	37	SW.	2	6	7	15	13	12	15	6	0	12	4	2	1	11	0	0	26	0	1
March	2.38	.69	1.4	7.4	11.8	W.	41	SW.	2	4	8	19	16	8	13	9	0	14	2	1	1	6	0	0	27	0	1
April	4.04	1.25	.7	7.3	12.4	SW.	31	SW.	0	4	7	19	14	12	10	4	0	12	2	1	0	0	0	0	10	0	0
May	.97	.46	.0	4.6	9.5	SW.	26	W.	0	12	12	7	9	8	0	0	0	8	2	1	1	0	1	0	0	0	4
June	4.70	2.65	.0	6.2	9.3	E.	34	S.	2	7	12	11	13	11	0	0	0	8	0	0	0	0	0	0	0	0	11
July	2.54	1.05	.0	5.1	8.3	S.	31	W.	0	12	12	7	8	5	0	0	0	5	0	0	0	0	5	1	0	0	3
August	1.39	1.05	.0	4.6	8.6	S.	27	SW.	0	11	12	8	8	4	0	0	0	6	2	2	0	0	1	0	0	0	5
September	2.70	.81	.0	5.0	9.1	N.	29	NW.	0	11	11	8	10	9	0	0	1	5	0	0	0	0	6	4	0	0	5
October	1.66	.63	T	5.5	10.5	NW.	34	W.	1	10	10	11	14	7	2	0	0	8	1	1	0	0	0	0	2	0	2
November	.57	.22	T	5.9	9.8	W.	29	SW.	0	11	7	12	6	4	7	0	0	9	1	0	1	0	0	0	19	0	0
December	1.02	.38	1.9	8.3	12.5	SW.	34	NW.	1	3	5	23	13	6	14	6	0	9	1	0	0	8	0	0	20	0	0
Year	29.21	2.65	35.9	6.3	10.5	SW.	41	SW.	12	94	108	163	144	100	83	40	2	111	19	10	4	41	13	5	129	0	32

DEVILS LAKE, N. DAK.

[H=1,472 ft.; H_b=1,478 ft.; H_t=11 ft.; H_r=4 ft.; H_a=44 ft.]

January	0.45	0.15	5.6	7.0	8.4	SE.	27	NW.	0	5	7	19	12	4	22	12	0	14	4	3	3	30	0	0	31	16	0
February	.36	.11	3.7	5.6	10.9	NW.	33	NE.	1	10	7	11	10	4	21	10	0	3	0	0	0	27	0	0	28	23	0
March	.19	.11	2.1	5.7	9.6	NW.	29	NE.	0	9	9	13	3	3	13	3	0	5	3	2	2	16	0	0	27	10	0
April	1.05	.34	2.3	6.3	10.5	NW.	33	N.	1	6	11	13	9	6	11	4	0	3	1	1	1	4	0	0	18	0	2
May	1.54	.64	.0	6.2	10.8	NE.	33	NW.	1	4	17	10	9	7	0	0	1	2	1	1	1	0	3	1	1	0	8
June	4.65	1.34	.0	6.0	9.3	NE.	26	NE.	0	9	8	13	10	8	0	0	0	1	1	0	0	0	0	0	0	0	7
July	2.04	1.08	.0	4.2	8.0	SE.	26	NW.	0	13	13	5	7	6	0	0	1	3	1	1	1	0	9	3	0	0	8
August	2.76	2.00	.0	5.1	8 2	NW.	27	NW.	0	12	8	11	8	6	0	0	1	4	0	0	0	0	10	2	0	0	5
September	.50	.15	.3	5.0	9.2	S.	25	N.	0	10	10	10	10	6	2	2	0	5	1	0	2	0	2	0	6	0	1
October	.68	.43	1.3	7.6	10.0	NW.	33	NW.	1	4	7	20	8	4	8	3	0	2	1	0	0	2	0	0	18	0	0
November	.09	.05	T	5.6	8.7	S.	31	NW.	0	9	10	11	3	1	6	0	0	4	1	1	1	4	0	0	30	0	0
December	.35	.26	2.0	7.0	8.5	W.	35	NW.	2	5	7	19	6	1	16	6	0	3	2	1	1	16	0	0	29	3	0
Year	14.66	2.00	17.3	5.9	9 3	NW.	35	NW.	6	96	114	155	95	56	99	40	3	49	16	10	12	99	24	6	188	52	31

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DODGE CITY, KANS.

[ϕ=37°45′ N.; λ=100°00′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	27.33	27.92	26.75	34.0	30.2	45.0	43.8	29.7	27.1	36.3	35.6	50.3	26.5	38.4	70	15	22	22	24	24	23	62	69	45	46	56
February	27.34	27.83	26.82	26.6	21.5	35.3	35.9	22.0	18.5	28.1	28.7	42.1	16.1	29.1	61	−3	12	11	16	16	16	54	64	46	45	52
March	27.39	27.77	26.70	40.3	36.5	51.6	51.9	36.1	33.9	42.7	42.7	57.5	32.9	45.2	78	11	31	30	33	33	32	71	80	54	54	65
April	27.35	27.85	26.81	49.8	44.5	61.0	63.9	43.7	40.5	47.8	49.0	68.0	41.9	55.0	93	25	37	36	35	35	36	64	74	42	38	54
May	27.30	27.73	26.86	62.0	57.3	76.1	76.9	54.9	52.4	59.2	59.1	80.6	55.0	67.8	99	40	50	48	48	46	48	66	74	39	37	54
June	27.29	27.70	26.90	70.7	64.9	82.1	84.8	60.9	59.4	64.6	64.8	88.7	63.3	76.0	104	53	55	56	54	53	54	60	75	42	37	54
July	27.36	27.62	27.09	77.6	71.6	91.8	92.6	64.1	62.8	68.0	67.3	96.7	69.7	83.2	105	61	56	58	55	53	56	50	63	32	29	44
August	27.36	27.67	27.09	73.6	69.7	86.7	86.6	64.7	62.1	66.8	65.7	92.2	65.9	79.0	102	54	60	59	56	54	57	64	74	37	35	52
September	27.41	27.78	26.99	69.0	62.2	81.5	82.8	55.3	52.3	60.2	59.9	86.8	59.7	73.2	104	39	45	44	46	43	44	43	54	30	28	39
October	27.38	27.84	26.96	54.5	48.9	69.4	67.8	44.6	41.7	51.0	50.3	74.8	44.5	59.6	90	28	33	33	33	33	33	48	56	28	30	40
November	27.60	27.99	27.06	39.9	34.9	53.3	49.7	34.0	30.6	41.5	39.3	57.9	32.0	45.0	74	13	24	24	27	26	25	54	63	39	40	49
December	27.41	27.79	27.04	35.3	30.5	46.6	44.3	29.3	25.6	36.1	34.7	52.0	26.7	39.4	81	−1	20	17	22	22	20	54	57	43	46	50
Year	27.38	27.99	26.70	52.8	47.7	65.0	65.1	44.9	42.2	50.2	49.8	70.6	44.5	57.6	105	−3	37	36	37	36	37	58	67	40	39	51

DUBUQUE, IOWA

[ϕ=42°30′ N.; λ=90°40′ W.]

January	29.20	29.63	28.56	27.2	25.4	31.3	30.3	25.8	24.3	28.6	28.1	35.0	21.7	28.4	58	1	23	22	23	24	23	84	86	72	77	80
February	29.27	29.79	28.48	21.1	15.4	24.9	25.8	19.5	14.3	21.7	23.1	32.6	12.1	22.4	52	−5	16	11	14	17	14	78	81	61	68	72
March	29.29	29.75	28.73	31.7	28.1	41.6	40.9	29.3	26.4	35.1	35.3	45.9	26.0	36.0	82	8	25	23	26	28	26	76	80	55	61	68
April	29.19	29.73	28.52	42.5	39.9	51.0	51.1	38.3	36.3	42.2	42.6	55.9	37.1	46.5	85	21	33	32	32	33	32	70	72	51	51	61
May	29.18	29.63	28.81	60.2	58.0	72.7	73.0	53.9	52.8	59.2	59.3	77.4	54.5	66.0	92	38	48	48	49	49	48	66	71	45	44	56
June	29.16	29.53	28.71	66.6	65.9	77.4	76.2	62.6	62.3	66.2	65.9	81.2	62.3	71.8	94	47	60	60	60	60	60	81	82	57	59	70
July	29.22	29.46	28.94	70.4	69.0	82.2	83.0	65.3	64.3	68.3	70.1	86.4	65.9	76.2	98	55	62	62	61	64	62	77	78	50	54	65
August	29.22	29.55	28.87	65.9	64.0	78.2	76.6	62.2	61.4	66.5	66.6	82.3	61.5	71.9	92	54	60	60	60	61	60	82	87	56	61	71
September	29.25	29.63	28.76	63.9	60.0	75.8	72.2	57.4	55.5	61.4	60.7	79.9	56.9	68.4	99	36	53	52	52	53	53	69	77	46	53	61
October	29.23	29.80	28.82	50.0	46.2	59.1	56.2	44.9	42.5	48.7	48.1	64.2	42.5	53.4	87	28	40	38	38	40	39	70	74	48	56	62
November	29.50	30.00	28.99	37.0	33.9	45.5	42.9	33.8	31.5	38.1	37.5	49.3	31.6	40.4	69	21	29	28	28	30	29	74	78	52	61	66
December	29.20	29.66	28.77	32.0	29.0	36.9	35.3	29.2	26.6	31.8	30.8	41.0	25.5	33.2	58	2	25	23	24	24	24	75	77	58	62	68
Year	29.24	30.00	28.48	47.4	44.6	56.4	55.3	43.5	41.5	47.3	47.3	60.9	41.5	51.2	99	−5	40	38	39	40	39	75	79	54	59	67

DULUTH, MINN.

[ϕ=46°47′ N.; λ=92°06′ W.]

January	28.67	29.05	28.10	15.1	13.4	18.8	18.5	14.4	12.9	17.6	17.5	22.8	7.7	15.2	35	−21	12	11	14	15	12	86	88	81	85	85
February	28.71	29.20	27.77	5.7	2.3	9.2	9.1	5.0	1.8	8.3	8.2	17.3	−4.9	6.2	38	−27	1	−1	4	4	2	80	85	77	79	80
March	28.79	29.24	28.15	20.1	17.0	27.4	25.5	18.7	16.0	24.2	23.3	31.6	13.5	22.6	68	−10	15	14	18	19	16	80	86	68	78	78
April	28.72	29.11	28.24	31.8	30.5	39.6	37.2	29.0	28.2	33.8	32.5	43.7	26.5	35.1	75	12	24	24	25	25	24	74	79	57	63	68
May	28.69	29.14	28.09	46.0	45.4	56.6	52.0	42.3	42.4	48.2	45.8	61.1	39.7	50.4	95	30	38	39	40	40	39	75	79	58	67	70
June	28.67	28.94	28.34	53.1	53.1	62.0	58.1	50.6	51.1	55.5	53.0	66.5	47.9	57.2	84	39	48	49	51	49	49	85	88	69	76	80
July	28.75	28.98	28.49	62.6	60.9	73.3	70.8	58.4	57.2	63.3	61.9	76.8	57.1	67.0	89	49	56	55	57	56	56	78	81	60	62	70
August	28.72	29.08	28.34	61.7	59.8	71.5	68.1	57.7	57.2	63.1	61.6	74.2	56.9	65.6	91	50	55	55	58	58	56	80	86	65	72	76
September	28.75	29.24	28.33	52.6	50.3	62.9	56.9	49.9	48.3	55.2	52.5	65.2	48.0	56.6	89	29	47	46	49	48	48	83	86	62	74	76
October	28.68	29.23	28.20	40.0	38.0	47.9	43.4	36.8	35.6	41.3	39.1	50.6	35.4	43.0	71	20	32	32	33	34	33	75	81	58	72	72
November	28.95	29.50	28.41	32.1	29.5	40.2	35.7	29.5	27.9	35.1	32.1	43.6	27.5	35.6	64	10	25	25	28	27	26	75	83	63	70	73
December	28.65	29.10	28.18	25.7	23.5	29.6	27.3	23.9	22.2	26.5	25.0	33.6	19.4	26.5	56	−8	20	20	21	20	20	80	84	69	76	77
Year	28.73	29.50	27.77	37.2	35.3	44.9	41.9	34.7	33.4	39.3	37.7	48.9	31.2	40.1	95	−27	31	31	33	33	32	79	84	66	73	75

EASTPORT, MAINE

[ϕ=44°54′ N.; λ=66°59′ W.]

January	29.81	30.47	28.80	----	17.8	24.2	22.7	----	16.4	21.3	20.3	28.9	12.8	20.8	45	−5	----	11	12	13	12	----	74	58	65	66
February	29.97	30.58	29.26	----	20.9	25.5	25.4	----	19.6	22.8	22.9	32.8	14.4	23.6	51	0	----	16	14	17	16	----	78	64	70	71
March	29.93	30.34	29.17	----	23.2	29.8	28.2	----	21.3	26.5	25.6	33.0	19.1	26.0	48	−4	----	15	18	19	17	----	71	62	67	67
April	29.82	30.35	29.10	----	35.4	41.4	38.1	----	33.4	36.7	35.0	43.5	31.8	37.6	58	22	----	30	30	30	30	----	81	66	75	74
May	29.87	30.29	29.31	----	45.3	52.6	47.7	----	42.9	46.6	43.5	56.4	39.6	48.0	75	32	----	40	40	39	40	----	83	66	74	74
June	29.88	30.19	29.51	----	53.6	61.0	55.0	----	49.6	53.1	50.8	64.1	46.8	55.4	83	42	----	46	46	47	46	----	77	62	77	72
July	29.86	30.18	29.51	----	59.5	65.3	59.4	----	57.3	60.3	56.6	69.6	51.9	60.8	85	47	----	56	57	55	56	----	88	78	86	84
August	29.92	30.20	29.56	----	61.3	68.9	63.5	----	59.0	63.4	60.0	72.0	55.1	63.6	81	49	----	58	60	58	59	----	88	76	83	82
September	29.91	30.42	29.46	----	53.8	60.3	55.8	----	51.7	55.0	52.9	63.9	48.7	56.3	91	38	----	50	51	50	50	----	87	73	83	81
October	29.88	30.42	29.10	----	46.4	51.2	47.8	----	44.7	47.5	45.5	53.9	41.5	47.7	68	30	----	43	44	43	43	----	87	76	83	82
November	29.96	30.45	29.07	----	32.4	38.8	35.6	----	30.6	34.8	32.8	41.1	29.1	35.1	56	19	----	27	29	28	28	----	80	67	74	74
December	29.64	30.23	28.90	----	25.5	30.0	28.1	----	24.0	27.4	26.0	34.3	20.1	27.2	53	1	----	20	21	20	20	----	78	70	72	73
Year	29.87	30.58	28.80	----	39.6	45.8	42.3	----	37.5	41.3	39.3	49.5	34.2	41.8	91	−5	----	34	35	35	35	----	81	68	76	75

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

DODGE CITY, KANS.

[H=2,522 ft.; H_b=2,509 ft.; H_t=10 ft.; H_r=3 ft.; H_a=86 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind				Number of days—																
					By self-register							Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	0.68	0.62	0.8	5.2	12.3	NW.	37	NW.	3	11	10	10	4	2	4	2	0	3	1	0	0	0	0	0	28	0	0
February	1.30	.96	14.3	4.2	12.4	N.	36	SW.	3	14	6	8	6	2	8	6	0	0	0	0	0	4	0	0	27	1	0
March	1.06	.36	2.8	4.7	11.4	SW.	41	NE.	2	15	6	10	5	5	6	2	1	5	4	2	2	2	0	0	19	0	3
April	.46	.30	T	4.7	14.2	N.	39	N.	5	12	10	8	6	3	4	2	0	1	0	0	0	0	1	0	8	0	1
May	2.29	1.56	.0	4.5	12.4	S.	43	N.	3	13	12	6	6	4	0	0	3	0	0	0	0	0	4	1	0	0	7
June	2.48	1.41	.0	3.3	13.3	S.	37	S.	7	16	12	2	11	8	0	0	1	2	2	1	2	0	12	5	0	0	11
July	.93	.46	.0	3.1	12.1	SW.	43	NE.	3	19	11	1	4	4	0	0	1	0	0	0	0	0	27	21	0	0	10
August	2.09	.69	.0	3.7	11.2	SW.	31	SE.	0	13	16	2	8	7	0	0	0	3	0	0	0	0	19	13	0	0	11
September	.10	.07	.0	2.3	12.9	SW.	39	NE.	3	22	7	1	3	1	0	0	0	0	0	0	0	0	17	6	0	0	1
October	.28	.28	.0	1.9	12.5	SW.	36	SW.	3	26	3	2	2	2	0	0	0	0	0	0	0	0	1	0	2	0	0
November	.42	.36	1.0	3.5	10.0	S.	28	SW.	0	18	2	10	3	2	2	1	0	4	1	0	1	0	0	0	14	0	0
December	.89	.57	4.6	4.3	11.1	NW.	36	N.	1	13	12	6	3	3	5	3	0	1	1	1	1	6	0	0	19	1	0
Year	12.98	1.56	23.5	3.8	12.1	SW.	43	N.	33	192	107	66	61	43	29	16	6	19	9	4	6	12	81	46	117	2	44

DUBUQUE, IOWA

[H=641 ft.; H_b=699 ft.; H_t=60 ft.; H_r=53 ft.; H_a=79 ft.]

January	0.81	0.23	5.6	7.6	6.8	NW.	27	NW.	0	4	8	19	13	5	18	9	0	8	2	2	2	12	0	0	28	0	0
February	2.12	.67	13.3	5.6	8.1	NW.	24	NW.	0	9	6	13	8	5	11	5	0	3	2	2	2	12	0	0	28	3	0
March	1.59	.58	11.8	5.2	7.2	NW.	25	NW.	0	11	11	9	8	5	8	5	0	4	0	0	0	8	0	0	24	0	1
April	2.98	1.64	T	6.2	7.7	NW.	21	NW.	0	8	7	15	10	7	6	1	1	1	1	0	0	1	0	0	11	0	3
May	1.44	.93	.0	4.5	6.3	S.	18	S.	0	15	9	7	6	4	0	0	0	0	0	0	0	2	0	0	0	0	4
June	5.17	1.43	.0	6.0	6.0	S.	19	NW.	0	8	9	13	9	9	0	0	1	2	2	2	2	0	3	0	0	0	8
July	5.30	2.45	.0	4.9	5.1	S.	22	NW.	0	12	11	8	9	5	0	0	0	1	0	0	0	0	8	3	0	0	10
August	4.27	1.46	.0	5.6	4.6	S.	18	SE.	0	12	5	14	10	9	0	0	0	5	3	3	3	0	1	0	0	0	5
September	.69	.31	.0	3.7	6.0	S.	17	NE.	0	15	9	6	5	4	0	0	0	6	1	1	1	0	8	4	0	0	1
October	4.19	3.00	T	5.1	6.6	S.	22	NW.	0	13	7	11	11	7	1	0	2	3	2	1	1	0	0	0	4	0	3
November	1.09	.79	T	5.2	5.7	NW.	19	NW.	0	10	12	8	5	4	3	0	0	6	6	3	2	0	0	0	19	0	0
December	.24	.17	T	5.8	6.7	NW.	22	NW.	0	10	8	13	3	2	7	1	0	2	0	0	0	9	0	0	24	0	0
Year	29.89	3.00	30.7	5.4	6.4	NW.	27	NW.	0	127	102	136	97	66	54	21	4	41	19	14	13	42	22	7	138	3	35

DULUTH, MINN.

[H=1,128 ft.; H_b=1,133 ft.; H_t=5 ft.; H_r=3 ft.; H_a=47 ft.]

January	1.75	0.60	13.7	7.7	11.6	NW.	46	NW.	5	4	5	22	11	8	21	10	0	3	0	0	3	28	0	0	31	9	0
February	3.20	.93	33.9	6.0	16.3	NW.	50	NW.	12	10	3	15	12	10	18	12	0	1	0	0	0	25	0	0	28	21	0
March	1.42	1.19	13.7	5.4	13.3	NE.	42	NE.	4	12	7	12	5	4	12	5	0	5	3	1	2	18	0	0	30	5	0
April	1.28	.52	8.0	6.0	13.3	NW.	36	NE.	1	10	6	14	6	6	9	4	0	1	1	1	1	5	0	0	20	0	0
May	1.93	.75	.0	5.7	12.8	NE.	35	W.	3	8	13	10	13	7	0	0	1	9	9	3	9	0	1	0	2	0	4
June	4.34	1.41	.0	6.3	11.9	NE.	34	NE.	2	8	8	14	18	16	0	0	1	12	11	4	12	0	0	0	0	0	8
July	2.03	1.01	.0	3.6	9.9	NE.	42	W.	2	17	8	6	6	5	0	0	0	5	4	0	4	0	0	0	0	0	6
August	5.66	3.38	.0	4.5	10.5	NE.	29	NW.	0	11	13	7	12	10	0	0	0	3	2	2	2	0	1	0	0	0	7
September	.72	.26	.0	4.7	11.0	NE.	39	NW.	2	14	6	10	7	4	0	0	2	5	2	1	6	0	0	0	4	0	2
October	2.09	1.46	1.2	6.2	13.0	NW.	40	NW.	4	7	13	11	11	5	8	1	0	4	2	0	4	1	0	0	11	0	2
November	.16	.13	1.5	4.2	11.5	W.	35	NW.	1	16	5	9	3	1	5	2	0	5	4	3	2	2	0	0	23	0	0
December	.22	.12	1.3	5.8	13.7	NW.	48	NW.	10	9	8	14	4	2	13	1	0	3	1	1	1	16	0	0	29	2	0
Year	24.80	3.38	73.3	5.5	12.4	NE.	50	NW.	46	126	95	144	108	78	86	35	4	56	39	16	46	95	2	0	178	37	29

EASTPORT, MAINE

[H=33 ft.; H_b=75 ft.; H_t=67 ft.; H_r=62 ft.; H_a=85 ft.]

January	1.57	0.47	11.6	6.3	13.7	NW.	44	NE.	4	9	6	16	11	7	11	9	0	8	0	0	0	18	0	0	29	3	0
February	3.17	1.52	12.8	7.2	12.7	NW.	38	SW.	5	4	8	16	17	15	16	11	0	10	0	0	1	16	0	0	27	0	1
March	3.65	1.48	19.7	5.7	12.4	NW.	46	E.	4	12	6	13	12	11	10	7	0	8	0	0	2	12	0	0	27	1	0
April	3.95	.98	11.6	7.0	10.3	NW.	47	E.	1	5	7	18	14	12	11	6	0	11	0	0	5	1	0	0	17	0	1
May	1.40	.42	.0	6.0	8.9	SW.	26	E.	0	7	11	13	10	8	0	0	0	13	4	0	7	0	0	0	1	0	0
June	2.19	1.86	.0	6.2	9.5	SW.	26	E.	0	7	8	15	8	7	0	0	0	15	3	0	10	0	0	0	0	0	1
July	4.01	1.26	.0	5.8	7.9	S.	22	S.	0	9	12	10	9	8	0	0	0	19	2	0	12	0	0	0	0	0	5
August	.99	.58	.0	5.3	7.0	S.	23	E.	0	11	10	10	6	4	0	0	0	22	6	3	15	0	0	0	0	0	1
September	1.53	.76	.0	6.9	9.0	SW.	26	SW.	0	6	6	18	11	8	0	0	0	13	4	0	4	0	1	0	0	0	1
October	3.96	2.02	T	6.9	11.3	NW.	41	S.	1	7	5	19	16	10	3	0	0	17	4	0	2	0	0	0	7	0	3
November	2.53	1.63	1.8	5.3	12.5	W.	38	S.	4	12	4	14	5	4	4	1	0	6	0	0	1	2	0	0	22	0	0
December	3.71	1.21	16.5	7.2	13.0	NW.	38	E.	1	8	3	20	14	8	9	5	0	10	0	0	0	12	0	0	25	0	0
Year	32.66	2.02	74.0	6.3	10.7	NW.	47	E.	20	97	86	182	133	102	64	39	0	152	23	3	59	61	1	0	155	4	13

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ELKINS, W. VA.

Airport [ϕ=38°52′ N.; λ=79°51′ W.] City [ϕ=38°54′ N.; λ=79°51′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	27.96	28.36	27.30	34.0	31.8	39.8	36.2	30.7	29.4	35.0	32.3	44.3	27.0	35.6	64	5	26	26	28	26	26	72	79	63	70	71
February	28.02	28.44	27.34	33.9	32.3	44.9	39.8	31.1	30.3	38.9	35.5	49.2	26.0	37.6	73	2	27	27	31	29	28	75	81	61	68	71
March	28.01	28.43	27.36	38.5	35.7	51.0	45.6	34.5	32.8	41.7	38.5	54.9	31.2	43.0	77	8	29	29	30	29	29	69	77	48	54	62
April	27.92	28.41	27.50	41.1	41.2	54.2	50.0	38.3	38.5	45.8	42.6	57.9	36.1	47.0	82	21	35	35	37	34	35	79	79	55	57	68
May	28.00	28.23	27.60	50.5	52.7	70.7	66.0	48.8	50.0	58.0	55.8	74.0	47.5	60.8	88	28	47	48	48	47	48	89	84	47	53	68
June	28.02	28.22	27.79	62.2	64.0	77.4	72.4	61.2	62.0	68.1	66.0	80.6	59.5	70.0	90	48	61	61	63	62	62	95	90	62	73	80
July	28.01	28.20	27.73	61.5	62.7	76.5	70.5	60.7	61.3	66.8	66.2	78.7	59.3	69.0	89	47	60	60	62	64	62	96	93	62	80	83
August	28.02	28.22	27.81	60.6	61.2	79.5	70.2	59.9	60.2	67.6	66.0	81.7	58.5	70.1	89	51	60	60	61	64	61	96	95	55	81	82
September	28.06	28.35	27.80	55.1	54.1	77.9	64.7	54.1	53.3	64.0	59.9	80.4	51.6	66.0	91	39	53	53	56	57	55	94	96	48	77	79
October	28.05	28.37	27.63	44.9	42.8	63.9	53.1	43.2	41.3	53.1	48.1	67.0	39.7	53.4	84	21	41	40	44	43	42	88	89	51	70	74
November	28.16	28.45	27.81	33.2	29.6	48.1	38.7	31.2	28.2	40.2	34.9	49.8	29.1	39.4	75	15	28	26	30	30	28	82	86	53	70	73
December	27.89	28.34	27.45	32.4	30.4	39.7	34.7	30.0	28.5	34.4	31.5	43.5	26.2	34.8	66	11	26	26	27	26	26	79	82	63	73	74
Year	28.01	28.45	27.30	45.7	44.9	60.3	53.5	43.6	43.0	51.1	48.1	63.5	41.0	52.2	91	2	41	41	43	43	42	84	86	56	69	74

EL PASO, TEX.

Airport [ϕ=31°48′ N.; λ=106°24′ W.] City [ϕ=31°47′ N.; λ=106°30′ W.]

	(1 3)	(1 2)	(1 3)		(1)	(1)	(1)		(1)	(1)	(1)							(1)	(1)	(1)	(1)		(1)	(1)	(1)	(1)
January	26.19	26.59	25.73	----	37.6	51.6	53.8	----	31.9	40.0	41.3	57.5	34.0	45.8	74	27	----	23	24	25	24	----	56	36	35	42
February	26.13	26.54	25.71	----	33.5	50.4	54.0	----	28.1	37.9	39.8	57.5	29.8	43.6	69	17	----	18	20	20	19	----	53	30	26	36
March	26.18	26.47	25.84	----	47.0	65.3	68.7	----	37.6	47.8	49.1	71.7	44.6	58.2	82	29	----	23	27	27	26	----	40	26	23	30
April	26.15	26.51	25.92	----	54.9	72.4	75.9	----	43.1	51.5	52.7	79.3	51.8	65.6	90	26	----	29	31	30	30	----	40	24	21	28
May	26.09	26.36	25.89	----	63.1	82.9	86.6	----	47.7	56.2	57.0	88.7	61.4	75.0	96	54	----	30	32	29	30	----	32	18	14	21
June	26.10	26.37	25.92	----	71.0	91.5	95.5	----	53.1	61.3	62.2	97.0	70.3	83.6	106	61	----	36	38	36	37	----	30	17	14	20
July	26.18	26.40	25.98	----	70.4	85.4	89.5	----	61.4	65.3	64.8	94.9	71.3	83.1	103	66	----	56	54	49	53	----	62	36	28	42
August	26.17	26.32	26.01	----	68.4	84.1	87.1	----	60.7	66.1	64.7	92.7	68.7	80.7	98	65	----	56	56	51	54	----	66	40	32	46
September	26.19	26.49	25.98	----	64.7	81.9	85.1	----	55.4	62.2	61.3	88.6	65.9	77.2	98	55	----	48	49	44	47	----	58	34	27	40
October	26.22	26.56	25.96	----	51.7	70.7	72.8	----	45.0	54.0	53.3	77.3	51.4	64.4	90	41	----	38	40	35	38	----	61	34	28	41
November	26.32	26.57	26.05	----	42.2	55.7	57.0	----	37.6	45.1	45.8	61.9	41.1	51.5	80	34	----	32	33	34	33	----	68	46	45	53
December	26.24	26.60	25.82	----	36.2	52.4	55.2	----	32.8	41.6	43.3	61.8	36.9	49.4	75	24	----	28	28	30	29	----	72	40	38	50
Year	26.18	26.60	25.82	----	53.4	70.4	73.4	----	44.5	52.4	36.1	77.4	52.3	64.8	106	17	----	35	36	34	35	----	53	32	28	37

ELY, NEV. (Airport)

[ϕ=39°17′ N.; λ=114°52′ W.]

January	23.88	24.30	23.40	17.0	12.2	25.1	30.1	15.5	11.0	22.3	26.6	35.8	6.4	21.1	49	−10	12	9	18	21	15	82	85	72	70	77
February	23.82	24.18	23.20	11.7	7.6	20.5	25.1	10.6	6.7	17.8	21.2	30.2	−0.8	14.7	44	−20	8	4	12	14	10	84	85	69	61	75
March	23.88	24.14	23.47	29.6	25.2	40.1	44.0	27.2	23.6	33.4	35.9	47.5	21.5	34.5	64	−9	24	21	25	27	24	78	83	56	53	68
April	23.90	24.23	23.48	40.3	34.0	53.8	58.0	35.1	30.8	41.4	42.4	60.9	30.7	45.8	73	23	29	27	28	26	27	66	74	42	33	54
May	23.86	24.02	23.62	47.3	38.6	60.8	63.9	39.6	34.3	45.3	46.2	67.5	36.1	51.8	82	27	32	29	30	29	38	57	71	34	30	48
June	23.87	24.12	23.50	52.0	42.5	68.8	72.2	41.1	35.6	48.0	48.8	76.0	38.8	57.4	90	24	30	28	30	27	28	47	59	26	23	40
July	23.97	24.18	23.75	63.4	50.4	79.8	84.0	47.5	41.1	54.0	55.4	86.6	48.1	67.4	95	41	32	31	33	32	32	34	49	22	19	31
August	23.99	24.14	23.82	58.6	49.7	78.7	80.1	47.3	42.5	54.5	54.8	85.2	47.4	66.3	93	38	37	35	36	34	36	48	60	24	25	39
September	23.96	24.26	23.66	51.6	44.9	65.8	69.7	44.7	41.4	50.4	50.7	73.2	41.0	57.1	86	26	38	38	38	34	37	64	79	39	31	53
October	23.96	24.28	23.46	37.4	31.9	52.7	56.2	33.3	29.7	40.9	42.4	60.1	28.8	44.4	71	12	28	27	29	28	28	70	82	43	38	58
November	24.02	24.16	23.78	28.9	24.5	47.1	46.9	24.7	21.7	36.1	35.8	54.6	20.8	37.7	65	13	18	17	23	22	20	61	70	40	39	52
December	23.96	24.25	23.64	28.4	24.3	40.8	41.3	24.9	21.9	32.9	32.8	49.4	18.7	34.0	65	2	20	18	22	22	20	69	76	49	45	60
Year	23.92	24.19	23.64	38.8	32.2	52.8	56.0	32.6	28.4	39.8	41.1	60.6	28.1	44.4	73	14	26	24	27	26	26	63	73	43	39	55

ERIE, PA.

[ϕ=42°07′ N.; λ=80°05′ W.]

January	29.21	29.62	28.62	----	27.9	31.0	30.3	----	26.3	28.4	28.0	36.6	24.5	30.6	60	8	----	23	24	24	24	----	83	74	77	78
February	29.26	29.86	28.68	----	28.2	33.1	31.1	----	26.2	29.9	28.1	37.9	22.6	30.2	64	8	----	22	24	23	23	----	78	70	71	73
March	29.27	29.80	28.66	----	31.9	35.8	33.8	----	29.5	32.6	31.3	42.3	26.4	34.4	75	6	----	26	28	28	27	----	78	74	77	76
April	29.16	29.68	28.67	----	40.6	44.9	43.1	----	37.5	40.1	39.3	49.7	37.6	43.6	80	24	----	34	35	35	35	----	78	70	74	74
May	29.21	29.54	28.66	----	57.5	62.8	62.2	----	51.7	54.0	53.7	67.9	51.7	59.8	86	37	----	46	46	46	46	----	68	58	58	61
June	29.20	29.46	28.86	----	66.4	71.6	71.3	----	61.2	64.6	62.6	76.3	61.4	68.8	89	51	----	58	61	60	60	----	75	69	68	71
July	29.22	29.45	28.84	----	69.0	----	76.1	----	63.3	----	66.8	79.4	64.5	72.0	90	54	----	60	----	62	61	----	73	65	62	67
August	29.22	29.47	28.96	----	69.1	----	75.0	----	64.1	----	67.9	80.0	65.4	72.7	91	60	----	61	----	64	62	----	77	65	70	71
September	29.26	29.70	28.90	----	61.7	----	67.2	----	57.4	----	61.4	73.8	57.7	65.8	93	46	----	55	----	58	56	----	78	70	73	74
October	29.25	29.69	28.79	----	51.1	57.8	55.1	----	47.0	51.4	50.7	61.7	47.4	54.6	82	34	----	43	46	47	45	----	74	66	74	71
November	29.44	29.84	28.97	----	37.9	42.8	40.4	----	35.1	38.4	37.2	45.3	34.8	40.0	68	26	----	31	33	33	32	----	77	69	75	74
December	29.11	29.63	28.68	----	33.7	36.3	35.2	----	31.3	33.0	32.9	40.6	30.0	35.3	60	12	----	28	28	30	29	----	78	72	79	76
Year	29.23	29.86	28.62	----	47.9	[4] 46.2	51.7	----	44.2	[4] 41.4	46.7	57.6	43.7	50.6	93	6	----	41	[4] 36	42	42	----	76	68	72	72

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,947 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 3,778 feet.
[4] Annual mean based on 9 months' record.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ELKINS, W.VA.

Airport [H=1,990 ft.; H_b=2,007 ft.; H_t=5 ft.; H_r=3 ft.; H_a=32 ft.] City [H=1,927 ft.; H_b=1,947 ft.; H_t=61 ft.; H_r=53 ft.; H_a=78 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	4.89	1.14	18.0	8.1	8.3	W.	33	NW.	2	3	7	21	18	17	16	15	0	2	0	0	1	4	0	0	22	0	1
February	5.99	2.11	8.4	7.1	8.2	W.	27	S.	0	6	5	17	19	15	11	8	0	4	0	0	0	3	0	0	19	0	0
March	4.17	1.43	1.9	6.7	8.3	W.	28	W.	0	6	9	16	14	13	7	4	0	5	0	0	0	2	0	0	18	0	0
April	6.53	2.11	1.7	7.2	8.0	W.	31	NW.	0	4	9	17	20	18	8	4	1	1	1	1	0	0	0	0	10	0	3
May	1.35	.45	.0	6.3	5.1	N.	21	SW.	0	4	16	11	8	7	0	0	0	7	4	1	0	0	0	0	1	0	5
June	8.35	1.62	.0	7.3	4.9	W.	21	SW.	0	5	7	18	19	15	0	0	0	13	4	0	3	0	0	0	0	0	12
July	6.43	1.50	.0	7.2	4.5	SE.	24	NW.	0	3	13	15	17	16	0	0	0	13	8	0	4	0	0	0	0	0	13
August	.83	.20	.0	6.5	4.3	SE.	24	W.	0	4	15	12	11	7	0	0	0	19	5	3	14	0	0	0	0	0	10
September	2.41	.78	.0	5.0	4.8	W.	27	SW.	0	8	14	8	10	8	0	0	0	21	0	0	15	0	2	0	0	0	8
October	4.32	155	T	6.2	5.5	W.	27	W.	0	8	8	15	9	8	1	1	0	11	0	0	8	0	0	0	9	0	4
November	1.06	.61	3.0	5.9	5.4	W.	26	W.	0	10	5	15	12	6	6	2	0	8	1	0	1	0	0	0	21	0	0
December	2.54	.89	6.9	7.7	8.1	W.	30	W.	0	5	5	21	17	11	15	10	0	4	0	0	0	6	0	0	27	0	0
Year	48.87	2.11	39.9	6.8	6.3	W.	33	NW.	2	66	113	186	174	141	64	44	1	108	23	5	46	15	2	0	127	0	56

EL PASO, TEX.

Airport [H=3,912 ft.; H_b=3,916 ft.; H_t=6 ft.; H_r=18 ft.; H_a=54 ft.] City [H=3,710 ft.; H_b=3,778 ft.; H_t=82 ft.; H_r=75 ft.; H_a=101 ft.]

January	0.65	0.63	T	3.5	8.7	W.	31	SW.	0	16	13	2	3	2	1	1	0	0	0	0	0	0	0	0	11	0	0
February	.08	.08	0.5	2.1	9.2	W.	31	NW.	0	21	6	1	1	1	3	1	0	1	0	1	0	0	0	0	18	0	0
March	.44	.39	T	2.7	9.2	W.	30	SW.	0	20	7	4	2	2	1	0	0	0	0	0	0	0	0	0	2	0	3
April	.45	.41	T	2.4	9.9	W.	33	NE.	1	22	5	3	2	2	1	1	1	0	0	0	0	0	0	0	2	0	2
May	.01	.01	.0	2.5	8.7	W.	26	NW.	0	20	9	2	1	0	0	0	0	0	0	0	0	0	13	5	0	0	3
June	T	T	.0	1.5	9.2	W.	28	NE.	0	26	4	0	0	0	0	0	0	0	0	0	0	0	29	20	0	0	4
July	.60	.23	.0	4.9	8.6	E.	30	NE.	0	9	15	7	9	7	0	0	0	0	0	0	0	0	30	17	0	0	10
August	.91	.33	.0	2.8	7.6	E.	26	NE.	0	19	11	1	7	4	0	0	0	0	0	0	0	0	26	10	0	0	9
September	.90	.51	.0	1.8	8.2	E.	22	NE.	0	24	4	2	4	4	0	0	0	0	0	0	0	0	13	7	0	0	4
October	.93	.66	.0	2.3	6.7	E.	20	NE.	0	21	8	2	5	2	0	0	0	0	0	0	0	0	2	0	0	0	2
November	.75	.43	.0	5.0	8.1	E.	25	NE.	0	12	8	10	5	3	0	0	0	1	0	0	0	0	0	0	0	0	0
December	.19	.11	T	2.1	6.9	W.	31	NW.	0	23	5	3	2	2	1	1	0	0	0	0	0	0	0	0	6	0	0
Year	5.91	.66	.5	2.8	8.4	W.	33	NE.	1	233	95	37	41	29	7	4	1	2	0	1	0	0	113	59	39	0	37

ELY, NEV. (Airport)

[H=6,262 ft.; H_b=6,262 ft. H_t=5 ft.; H_r=3 ft.; H_a=41 ft.]

January	.83	0.38	13.8	6.1	11.7	S.	43	N.	2	8	10	13	7	5	11	7	0	2	----	----	0	9	0	0	31	8	1
February	.56	.20	8.6	6.6	12.6	S.	45	NW.	4	6	7	15	10	6	21	10	0	0	----	----	0	16	0	0	28	16	0
March	.87	.28	5.8	5.7	10.5	S.	34	SE.	2	9	9	13	8	7	7	5	0	0	----	----	0	4	0	0	27	4	1
April	1.57	.55	4.8	5.0	10.5	S.	35	N.	2	12	8	10	8	5	5	3	0	1	----	----	0	0	0	0	21	0	2
May	.60	.15	1.5	6.1	11.1	S.	36	S.	5	5	14	12	9	7	2	2	2	1	----	----	0	0	0	0	8	0	3
June	.94	.71	5.6	4.0	11.9	S.	47	S.	6	13	10	7	6	4	2	2	0	1	----	----	0	0	0	0	5	0	3
July	1.42	.67	.0	4.4	10.6	S.	34	NW.	2	14	9	8	5	5	0	0	0	0	----	----	0	0	13	1	0	0	8
August	.53	.21	.0	5.0	10.2	S.	34	E.	2	9	14	8	5	4	0	0	0	0	----	----	0	0	5	0	0	0	9
September	1.47	.56	.0	5.2	10.6	S.	35	W.	3	8	12	10	10	7	0	0	0	0	----	----	0	0	0	0	5	0	8
October	1.69	.94	3.1	3.2	10.6	S.	37	SW.	3	19	5	7	6	5	3	2	1	0	----	----	0	0	0	0	23	0	0
November	.07	.07	T	4.1	10.5	S.	34	S.	1	17	4	9	1	1	3	0	0	2	----	----	0	1	0	0	29	0	0
December	.07	.03	0.1	6.3	10.3	S.	38	SE.	2	8	8	15	4	0	4	1	0	0	----	----	0	2	0	0	28	0	0
Year	10.62	.94	43.3	5.1	10.9	S.	47	S.	34	128	110	127	79	56	58	32	3	7	----	----	0	32	18	1	205	28	35

ERIE, PA.

[H=655 ft.; H_b=714 ft.; H_t=57 ft.; H_r=50 ft.; H_a=81 ft.]

January	2.71	1.14	11.7	8.8	10.6	W.	35	SE.	2	1	5	25	19	12	18	15	0	1	0	0	0	12	0	0	25	0	0
February	4.13	1.58	12.2	7.1	11.1	S.	38	SE.	3	6	5	17	17	15	13	9	0	0	0	0	0	10	0	0	25	0	1
March	3.75	1.20	2.9	6.7	9.5	SW.	30	SW.	0	6	9	16	16	11	12	8	0	2	0	0	1	6	0	0	26	0	0
April	3.22	.81	3.3	7.3	9.9	SW.	32	SE.	1	4	7	19	15	15	8	3	0	2	2	0	0	0	0	0	10	0	2
May	2.72	1.46	.0	4.0	7.3	SW.	23	SW.	0	14	13	4	5	5	0	0	0	1	0	1	0	0	0	0	0	0	3
June	1.73	.56	.0	5.3	8.1	SW.	24	SW.	0	7	16	7	13	9	0	0	0	0	0	0	0	0	0	0	0	0	6
July	4.57	1.29	.0	4.4	6.8	SW.	23	NW.	0	12	14	5	9	8	0	0	0	0	0	0	0	1	0	0	0	0	7
August	2.10	.69	.0	3.7	6.7	S.	20	SW.	0	15	12	4	11	10	0	0	0	0	0	0	0	1	0	0	0	0	5
September	4.84	2.02	.0	5.6	7.1	SE.	19	SW.	0	8	12	10	12	10	0	0	0	0	0	0	0	3	0	0	0	0	7
October	4.56	1.74	.1	6.0	8.8	S.	26	W.	0	9	7	15	15	10	4	1	2	1	1	1	0	0	0	0	0	0	6
November	2.16	1.02	T	7.2	8.4	S.	26	S.	0	4	8	18	9	6	6	0	0	1	0	0	0	0	0	0	8	0	0
December	2.96	.69	7.6	8.6	10.5	S.	26	SW.	0	0	8	23	15	10	14	5	0	2	1	0	0	7	0	0	16	0	0
Year	39.45	2.02	37.8	6.2	8.7	S.	38	SE.	6	86	116	163	156	121	75	41	2	10	4	2	1	35	5	0	110	0	37

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ESCANABA, MICH.

[ϕ=45°48′ N.; λ=87°05′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.29	29.71	28.59	20.0	17.4	23.5	22.5	18.3	16.2	21.5	21.1	27.5	13.2	20.4	41	−6	14	13	16	17	15	78	80	72	79	77
February	29.32	29.86	28.31	12.6	9.6	17.0	15.6	11.3	8.3	14.7	13.9	23.3	3.8	13.6	36	−12	6	3	6	7	6	72	74	60	68	69
March	29.38	29.88	28.36	20.5	18.7	28.1	25.6	19.2	17.5	24.8	23.2	31.7	14.8	23.2	52	−11	15	14	17	17	16	77	80	63	68	72
April	29.28	29.71	28.71	33.3	31.2	40.1	37.9	30.8	29.5	35.1	34.1	43.7	27.8	35.8	71	11	26	26	28	29	27	76	82	61	70	72
May	29.30	29.74	28.67	47.0	47.6	54.5	52.9	44.2	44.5	48.7	48.1	58.8	42.5	50.6	85	28	41	41	43	43	42	80	79	66	70	74
June	29.26	29.61	28.73	58.0	58.8	65.6	64.4	55.0	55.9	58.5	58.1	69.7	54.6	62.2	82	44	53	54	54	54	53	83	84	67	70	76
July	29.32	29.56	29.01	64.2	64.2	74.9	73.0	60.2	60.1	64.3	64.2	77.7	59.8	68.8	89	45	58	57	58	59	58	80	79	58	62	70
August	29.30	29.70	28.87	62.8	61.1	72.0	69.4	60.3	58.7	64.4	64.0	74.8	58.3	66.6	86	49	59	57	60	61	59	87	87	68	76	79
September	29.36	29.81	28.86	55.0	52.9	62.9	60.7	52.6	50.7	55.6	55.5	65.7	48.3	57.0	84	29	50	49	50	52	50	85	87	64	72	77
October	29.29	29.80	28.80	43.3	42.3	49.0	47.0	40.7	40.0	43.7	43.3	52.2	38.6	45.4	70	27	37	37	38	39	38	80	82	67	74	76
November	29.56	30.06	28.97	32.8	31.4	40.0	37.0	30.9	29.6	35.6	34.2	42.3	28.2	35.2	63	22	28	27	29	30	28	82	82	66	74	76
December	29.20	29.67	28.71	29.0	27.9	32.4	30.8	27.5	26.4	29.5	28.6	35.0	23.9	29.4	56	3	25	24	25	25	24	82	83	73	78	79
Year	29.32	30.06	28.31	39.9	38.6	46.7	44.7	37.6	36.4	41.4	40.7	50.2	34.5	42.4	89	−12	34	34	35	36	35	80	82	65	72	75

EUREKA, CALIF.

[ϕ=40°48′ N.; λ=124°11′ W.]

January	30.08	30.46	29.92	45.8	43.4	46.8	50.7	43.8	41.7	43.8	46.8	52.6	40.4	46.5	63	33	42	40	40	43	41	86	88	80	76	82
February	30.17	30.54	29.64	43.5	41.5	45.8	48.3	41.7	39.9	42.5	44.6	50.3	38.5	44.4	59	31	40	38	38	40	39	86	88	76	75	81
March	30.06	30.41	29.73	47.1	44.8	49.2	51.3	44.9	43.4	45.5	47.2	53.2	42.7	48.0	71	34	42	42	41	43	42	84	90	76	74	81
April	30.08	30.35	29.89	49.4	47.0	52.4	53.0	47.6	45.6	48.2	49.4	56.3	46.0	51.2	70	38	46	44	44	46	45	88	90	74	78	82
May	30.00	30.19	29.74	52.1	49.8	55.5	57.2	49.8	48.0	50.5	51.8	59.6	48.4	54.0	84	41	48	46	46	47	47	86	88	71	70	79
June	30.01	30.18	29.81	52.5	50.5	54.8	56.5	50.5	49.2	51.3	52.5	58.1	49.8	54.0	63	44	48	48	48	49	48	88	91	79	77	84
July	29.98	30.17	29.74	54.6	52.5	57.1	59.2	53.0	51.7	53.9	55.1	61.3	51.9	56.6	68	49	52	51	52	52	52	90	95	82	78	86
August	29.95	30.14	29.74	55.3	53.5	57.0	59.6	53.7	52.5	54.5	55.7	61.2	52.5	56.8	67	50	52	52	53	53	52	90	94	85	79	87
September	29.93	30.22	29.60	55.2	53.2	59.3	60.1	53.4	52.0	54.8	55.5	63.3	52.0	57.6	85	45	52	51	52	52	52	89	93	77	76	84
October	30.04	30.36	29.63	52.8	50.9	56.3	57.5	51.4	49.7	52.6	53.5	60.5	49.1	54.8	79	43	50	49	50	50	50	91	92	80	78	85
November	30.09	30.27	29.65	48.7	47.1	51.4	53.6	47.5	45.9	48.5	50.3	56.7	44.2	50.4	65	40	46	45	46	47	46	92	92	82	81	87
December	30.01	30.37	29.41	51.7	49.7	53.1	54.9	49.0	47.3	49.4	50.9	58.6	46.5	52.6	68	36	47	45	46	48	46	84	86	77	77	81
Year	30.03	30.54	29.41	50.7	48.7	53.2	55.2	48.9	47.2	49.6	51.1	57.6	46.8	52.2	85	31	47	46	46	48	47	88	91	78	77	83

EVANSVILLE, IND.

[ϕ=37°58′ N.; λ=87°33′ W.]

January	29.57	30.00	28.77	39.2	37.1	43.3	43.0	36.0	34.4	38.1	38.2	48.2	33.8	41.0	66	21	32	30	31	32	31	74	76	63	66	70
February	29.62	30.10	29.04	35.5	33.6	38.7	39.0	33.4	31.5	34.5	35.3	46.1	28.1	37.1	68	14	30	28	28	30	29	80	80	66	70	74
March	29.61	30.02	28.85	46.3	42.7	52.0	52.7	41.4	39.1	43.7	44.3	58.3	40.1	49.2	81	25	36	35	34	34	35	68	73	53	52	61
April	29.52	30.13	29.05	50.7	48.5	56.8	58.5	46.1	44.4	48.2	49.4	61.9	45.7	53.8	82	27	41	40	39	40	40	71	72	54	53	63
May	29.51	29.84	28.96	64.6	61.7	74.2	73.9	58.8	56.4	61.3	61.5	78.3	59.2	68.8	93	42	54	52	52	53	53	71	72	48	50	60
June	29.50	29.79	29.14	71.4	71.4	80.9	79.7	67.6	67.4	70.2	69.9	84.9	67.9	76.4	92	58	66	65	65	65	65	83	82	60	63	72
July	29.51	29.76	29.36	74.7	73.2	84.6	83.7	69.8	68.6	71.7	72.2	89.1	70.2	79.6	98	63	68	66	66	67	67	79	80	54	59	68
August	29.50	29.71	29.24	72.6	70.1	84.0	82.2	67.4	66.0	70.2	69.8	87.4	68.0	77.7	94	62	65	64	63	64	64	77	81	51	55	66
September	29.55	29.80	29.31	72.0	66.8	85.4	82.5	63.1	60.6	67.3	66.7	89.4	64.8	77.1	101	46	58	56	57	58	57	62	70	40	45	54
October	29.60	30.02	29.28	57.8	54.0	69.6	66.7	51.9	49.5	56.3	55.1	73.6	51.5	62.6	91	35	47	45	45	45	45	67	73	44	48	58
November	29.81	30.18	29.47	42.2	39.6	50.4	48.6	38.1	36.3	42.0	40.9	53.4	37.2	45.3	69	29	33	32	31	31	32	71	74	51	54	62
December	29.55	29.92	29.11	37.4	34.4	42.8	41.1	34.3	32.0	37.1	36.2	46.5	31.0	38.8	68	5	30	28	30	30	29	74	78	60	65	69
Year	29.57	30.18	28.77	55.4	52.8	63.6	62.6	50.7	48.8	53.4	53.3	68.1	49.8	59.0	101	5	47	45	45	46	46	73	76	54	57	65

FORT SMITH, ARK.

[ϕ=35°22′ N.; λ=94°24′ W.]

January	29.58	30.08	28.95	42.5	39.1	49.2	50.5	38.5	35.9	42.3	43.0	55.6	35.6	45.6	72	21	33	32	34	34	33	69	75	56	55	65
February	29.59	30.13	28.88	39.4	35.4	43.3	45.7	35.8	32.9	38.6	39.8	51.2	31.6	41.4	74	13	30	29	32	32	30	72	78	67	62	70
March	29.59	30.00	29.00	52.8	47.5	61.2	63.9	46.6	43.6	50.9	52.2	67.5	45.2	56.4	82	29	40	39	40	40	40	63	72	48	45	59
April	29.52	30.03	29.10	56.6	52.2	64.8	66.1	50.0	47.6	53.3	53.9	70.3	49.1	59.7	89	31	44	43	43	43	43	64	71	48	47	59
May	29.46	29.75	29.08	66.7	63.0	76.6	78.5	61.9	59.1	64.8	65.4	81.4	60.8	71.1	94	48	59	56	57	57	57	77	80	54	51	65
June	29.46	29.73	29.19	75.2	72.5	84.1	85.2	70.1	68.7	72.6	72.8	88.5	69.7	79.1	97	60	68	67	67	67	67	78	83	58	56	69
July	29.49	29.72	29.36	79.9	75.5	91.4	92.6	72.2	70.6	74.2	74.1	97.1	73.9	85.5	104	69	69	68	66	66	67	69	79	45	43	61
August	29.48	29.70	29.29	78.5	72.8	89.6	91.6	69.6	67.8	72.4	72.2	95.6	71.6	83.6	102	66	65	65	64	62	64	64	78	45	40	59
September	29.51	29.78	29.26	78.3	71.7	90.6	90.9	66.4	64.4	69.3	68.9	96.3	70.5	83.4	107	45	60	60	58	57	58	54	68	34	34	51
October	29.59	30.01	29.33	62.4	56.3	74.5	75.2	55.4	52.2	59.6	59.8	80.0	54.0	67.0	94	33	50	49	48	48	48	64	76	41	41	59
November	29.80	30.23	29.45	47.1	43.3	53.3	53.9	42.9	40.6	46.2	46.6	57.6	40.8	49.2	76	28	38	37	38	38	38	72	80	59	58	69
December	29.58	29.94	29.19	43.3	39.3	50.1	50.5	39.1	36.4	43.0	43.1	55.9	37.1	46.5	74	19	33	32	35	34	33	67	76	57	54	65
Year	29.55	30.23	28.88	60.2	55.7	69.1	70.4	54.0	51.6	57.3	57.6	74.8	53.3	64.0	107	13	49	48	48	48	48	76	76	51	49	63

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ESCANABA, MICH.

[H=594 ft.; H_b=612 ft.; H_t=52 ft.; H_r=45 ft.; H_a=74 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—															
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.83	1.20	18.7	8.1	10.8	S.	37	NW.	2	3	5	23	15	10	20	12	0	6	4	4	4	21	0	0	29	4	0
February	2.26	.76	22.0	6.6	12.0	NW.	34	NW.	3	8	3	17	13	10	20	12	1	1	1	1	1	23	0	0	28	10	0
March	1.90	.96	20.0	6.6	11.8	N.	42	NW.	2	6	12	13	11	7	18	11	0	7	3	3	3	18	0	0	31	4	0
April	2.04	.97	3.4	6.9	10.8	N.	35	NW.	1	5	9	16	10	7	9	7	0	12	2	2	2	3	0	0	19	0	0
May	2.82	.82	T	5.9	11.1	S.	32	SW.	2	9	11	11	10	8	1	0	0	5	2	2	1	0	0	0	2	0	7
June	4.34	2.07	.0	6.7	10.4	S.	34	NW.	1	6	12	12	13	10	0	0	0	14	3	3	3	0	0	0	0	0	3
July	.38	.27	.0	4.7	9.6	S.	31	N.	0	12	13	6	4	2	0	0	0	7	3	3	2	0	0	0	0	0	6
August	2.62	.73	.0	5.9	9.8	S.	28	NW.	0	10	8	13	14	9	0	0	0	13	3	1	1	0	0	0	0	0	4
September	2.94	1.26	.0	5.7	11.1	S.	46	NW.	1	10	7	13	12	10	0	0	0	10	1	1	1	0	0	0	2	0	4
October	2.16	.75	.5	6.6	11.4	NW.	31	S.	0	6	12	13	14	8	7	3	1	8	5	4	4	0	0	0	10	0	3
November	.81	.74	.8	6.0	9.6	NW.	28	S.	0	8	8	14	7	1	8	3	0	9	4	3	3	0	0	0	25	0	1
December	1.53	.93	4.5	7.6	11.8	NW.	39	NW.	2	3	10	18	11	5	16	6	0	5	2	1	0	13	0	0	23	0	0
Year	26.63	2.07	69.9	6.4	10.8	S.	46	NW.	14	86	110	169	134	87	99	54	2	97	33	28	25	78	0	0	169	18	28

EUREKA, CALIF.

[H=43 ft.; H_b=60 ft.; H_t=72 ft.; H_r=65 ft.; H_a=88 ft.]

January	4.49	1.30	T	7.0	6.8	SE.	27	S.	0	4	9	18	15	12	1	1	3	12	5	3	6	0	0	0	0	0	0
February	4.41	1.03	T	6.5	8.6	N.	29	N.	0	7	6	15	13	13	2	1	5	5	1	1	2	0	0	0	1	0	1
March	5.03	3.09	0.0	6.8	7.3	N.	30	N.	0	7	9	15	15	10	0	0	2	6	2	2	2	0	0	0	0	0	0
April	.37	.17	.0	6.7	7.8	N.	32	N.	1	7	9	14	6	3	0	0	0	7	4	6	5	0	0	0	0	0	0
May	1.85	.84	.0	6.1	8.0	N.	24	N.	0	8	10	13	4	4	0	0	0	8	5	4	2	0	0	0	0	0	0
June	.56	.49	.0	6.3	8.2	N.	24	NW.	0	7	10	13	4	3	0	0	0	10	3	0	0	0	0	0	0	0	0
July	.23	.19	.0	6.3	6.8	N.	21	N.	0	8	9	14	3	3	0	0	0	13	7	4	4	0	0	0	0	0	0
August	.06	.03	.0	7.3	6.2	NW.	18	NW.	0	3	11	17	4	0	0	0	0	11	4	4	1	0	0	0	0	0	1
September	.05	.03	.0	4.8	5.4	N.	24	N.	0	14	8	8	3	0	0	0	0	10	9	5	7	0	0	0	0	0	1
October	1.82	.66	.0	6.1	5.6	N.	24	N.	0	7	11	13	7	7	0	0	0	16	13	10	9	0	0	0	0	0	0
November	.91	.76	.0	6.5	5.1	SE.	23	N.	0	5	10	15	4	4	0	0	0	16	9	12	10	0	0	0	0	0	1
December	12.13	4.17	.0	8.3	7.5	SE.	35	S.	1	3	5	23	16	15	0	0	0	5	2	3	3	0	0	0	0	0	0
Year	31.91	4.17	T	6.6	6.9	N.	35	S.	2	80	107	178	94	74	3	2	10	119	64	54	51	0	0	0	1	0	4

EVANSVILLE, IND.

[H=388 ft.; H_b=431 ft.; H_t=76 ft.; H_r=74 ft.; H_a=116 ft.]

January	5.32	2.22	3.5	7.6	10.7	SW.	33	SW.	1	5	4	22	11	9	11	6	0	7	1	1	1	0	0	0	12	0	2
February	6.66	1.59	13.4	6.6	10.9	N.	37	SW.	4	7	5	16	16	15	8	6	0	10	4	4	4	5	0	0	17	0	3
March	4.34	2.94	T	5.4	10.2	SW.	33	SW.	1	10	12	9	11	7	2	0	0	8	3	1	1	0	0	0	6	0	3
April	6.05	2.56	T	6.5	10.6	SW.	38	SW.	2	8	4	18	16	13	1	0	0	7	3	3	2	0	0	0	2	0	6
May	2.56	1.06	.0	5.6	7.6	S.	40	SW.	1	9	10	12	10	6	0	0	0	1	0	0	0	0	3	0	0	0	4
June	3.31	.76	.0	6.6	8.7	SW.	36	SW.	1	2	15	13	13	13	0	0	0	3	0	0	0	0	7	0	0	0	11
July	5.96	1.67	.0	5.9	6.9	N.	35	NW.	1	6	12	13	11	10	0	0	0	6	2	1	0	0	16	4	0	0	11
August	3.65	1.58	.0	4.6	6.4	S.	33	N.	1	14	9	8	11	9	0	0	0	6	5	3	2	0	6	0	0	0	8
September	.50	.46	.0	2.8	7.4	SW.	28	SW.	0	21	6	3	3	2	0	0	0	0	0	0	0	0	16	7	0	0	2
October	1.91	1.23	T	3.6	9.2	SW.	28	N.	0	18	5	8	6	6	1	0	0	1	0	0	0	0	2	0	0	0	4
November	1.75	1.03	T	6.3	7.3	N.	29	SW.	0	8	7	15	6	5	2	0	0	6	1	1	1	0	0	0	6	0	0
December	1.81	.89	11.2	6.3	9.6	SW.	25	SW.	0	7	8	16	9	7	7	6	0	3	2	1	1	4	0	0	16	0	0
Year	43.82	2.94	28.1	5.6	8.7	SW.	40	SW.	12	115	97	153	123	102	32	18	0	58	21	15	12	9	50	11	59	0	54

FORT SMITH, ARK.

[H=449 ft.; H_b=463 ft.; H_t=57 ft.; H_r=48 ft.; H_a=82 ft.]

January	1.97	0.82	0.0	5.2	8.5	E.	22	SW.	0	13	8	10	10	7	0	0	0	0	0	0	0	0	0	0	10	0	2
February	5.88	1.91	6.2	5.9	8.5	E.	30	W.	0	10	4	14	12	12	2	2	0	1	0	0	0	1	0	0	14	0	2
March	1.24	.44	.0	5.0	8.1	E.	34	SE.	3	11	13	7	7	6	0	0	0	2	1	0	0	0	0	0	2	0	4
April	4.35	2.41	T	5.1	9.4	E.	25	NE.	0	12	10	8	7	6	1	0	0	1	0	0	0	0	0	0	1	0	6
May	3.43	1.08	.0	4.8	7.4	E.	31	S.	0	11	13	7	9	7	0	0	0	0	0	0	0	0	1	0	0	0	8
June	4.88	1.11	.0	5.3	6.9	E.	26	NW.	0	8	16	6	10	9	0	0	0	0	0	0	0	0	11	2	0	0	12
July	.57	.33	.0	3.1	6.4	E.	26	SW.	0	19	10	2	6	3	0	0	0	1	0	0	0	0	29	22	0	9	8
August	1.21	.76	.0	4.4	6.3	E.	31	NW.	0	13	14	4	4	3	0	0	0	0	0	0	0	0	28	19	0	0	6
September	.23	.14	.0	2.1	6.9	E.	26	NW.	0	25	4	1	3	2	0	0	0	0	0	0	0	0	27	18	0	0	4
October	4.09	2.91	.0	2.8	7.3	E.	34	NW.	1	19	8	4	4	3	0	0	0	0	0	0	0	0	6	0	0	0	2
November	3.84	1.29	.0	5.9	5.8	E.	18	S.	0	10	5	15	7	7	0	0	0	1	0	0	3	0	0	0	3	0	0
December	1.57	1.24	2.7	5.9	7.7	E.	25	NW.	0	16	6	9	4	4	3	2	0	0	0	0	1	0	0	0	7	0	0
Year	33.26	2.91	8.9	4.6	7.5	E.	34	SE.	4	167	111	187	83	69	6	4	0	6	1	0	4	1	102	61	37	0	54

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

FORT WAYNE, IND.

Airport [ϕ=41° 10′ N.; λ=85° 08′ W.] City [ϕ=41° 05′ N.; λ=85° 10′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	In. (1 2)	In. (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.06	29.42	28.47		28.4	33.7	32.5		27.1	31.0	30.4	38.2	24.6	31.4	60	8		25	27	27	26		86	77	80	81
February	29.11	29.62	28.48		26.3	30.8	29.2		24.9	28.1	26.9	37.6	20.3	29.0	61	2		22	22	23	22		83	70	76	80
March	29.12	29.58	28.45		32.0	40.3	41.8		29.8	35.2	36.7	46.9	29.5	38.2	80	14		26	28	30	28		79	63	66	69
April	29.02	29.60	28.56		39.8	49.5	48.0		37.2	42.4	42.3	53.4	36.9	45.2	78	21		34	34	35	34		80	58	64	67
May	29.06	29.41	28.53		55.9	70.7	70.5		50.9	57.4	57.7	74.9	52.3	63.6	88	36		46	47	48	47		70	44	46	53
June	29.05	29.36	28.60		66.4	77.9	76.3		62.4	66.7	66.7	81.6	62.4	72.0	91	49		60	60	62	61		80	57	62	66
July	29.07	29.32	28.80	68.6	67.3	80.0	79.3	63.7	62.8	66.7	67.0	83.4	64.1	73.8	96	55	60	60	59	60	60	77	79	50	54	65
August	29.08	29.37	28.80	65.1	63.5	80.2	76.6	61.9	61.2	66.4	65.9	82.9	62.7	72.8	89	56	60	60	59	60	60	84	88	49	58	70
September	29.11	29.50	28.77	60.9	57.3	78.7	72.0	55.9	54.3	62.3	59.8	81.7	56.1	68.9	99	40	52	52	52	51	52	75	84	41	50	62
October	29.10	29.52	28.69	48.7	45.6	62.0	55.6	45.5	43.3	51.8	48.9	64.6	44.4	54.5	89	30	42	41	42	42	42	79	83	52	62	69
November	29.31	29.74	28.81	34.5	33.1	44.9	39.3	32.4	31.5	39.3	35.9	47.6	32.3	40.0	66	25	30	29	32	31	30	82	86	63	72	76
December	28.99	29.41	28.59	30.7	29.4	36.6	32.0	29.2	28.0	32.8	30.2	38.8	27.2	33.0	55	3	27	26	27	27	27	86	85	69	82	80
Year	29.09	29.74	28.45		45.4	57.1	54.4		42.8	48.3	47.4	61.0	42.7	51.9	99	2		40	41	41	41		82	58	64	70

FORT WORTH, TEX.

Airport [ϕ=32° 49′ N.; λ=97° 21′ W.] City [ϕ=32° 45′ N.; λ=97° 20′ W.]

	(3 4)	(3 4)	(3 4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	29.34	29.86	28.80		43.8				40.5			60.5	41.0	50.8	77	30		36					76			
February	29.32	29.90	28.74		38.8				36.1			56.0	34.8	45.4	80	18		32					78			
March	29.35	29.71	28.86		50.8				46.2			71.7	48.5	60.1	87	31		41					70			
April	29.26	29.72	28.84		55.9				51.4			76.2	53.8	65.0	88	36		47					74			
May	29.19	29.46	28.83		66.8				62.5			86.1	65.4	75.8	96	54		60					79			
June	29.20	29.41	28.96		74.4				69.4			90.7	72.5	81.6	98	67		67					79			
July	29.24	29.43	29.10	82.4	76.5	93.0	93.5	71.0	70.1	73.8	73.0	97.6	75.7	86.6	106	68	66	68	65	63	66	58	75	41	39	53
August	29.22	29.40	29.01	80.4	74.6	91.5	92.1	70.3	68.9	72.7	72.7	96.7	74.1	85.4	105	69	66	66	64	62	63	62	76	42	40	55
September	29.26	29.55	28.97	78.8	72.5	90.8	89.4	66.3	64.7	69.3	68.1	95.1	72.3	83.7	107	51	59	60	57	55	58	53	66	34	35	47
October	29.33	29.70	29.08	67.2	60.8	78.4	76.7	57.6	55.3	61.4	61.0	83.0	59.8	71.4	96	40	50	51	48	49	50	56	70	37	40	51
November	29.53	29.94	29.19	50.9	46.9	59.1	57.5	45.2	43.5	49.8	48.8	63.7	45.0	54.4	84	32	39	39	40	40	40	66	76	54	55	63
December	29.34	29.76	28.97	47.2	43.8	59.4	57.0	42.3	40.2	48.5	47.3	64.7	40.6	52.6	82	22	37	36	38	38	37	69	74	48	51	60
Year	29.30	29.94	28.74		58.8				54.1			78.5	57.0	67.7	107	18		50					74			

FRESNO, CALIF.

Airport [ϕ=36° 43′ N.; λ=119° 49′ W.] City [ϕ=36° 43′ N.; λ=119° 49′ W.]

	(3 5)	(3 5)	(3 5)	(3)	(3)	(3 6)	(3)	(3)	(3)	(3 6)	(3)						(3)	(3)	(3 6)	(3)	(3)	(3)	(3)	(3 6)	(3)	(3)
January	29.76	30.14	29.38		42.2	50.4	53.3		41.2	46.4	47.9	55.5	38.6	47.0	64	33		40	42	43	42		92	76	68	79
February	29.79	30.15	29.37		41.4	51.8	56.0		39.1	45.0	46.1	57.4	38.0	47.7	69	32		36	38	35	36		82	60	48	63
March	29.72	30.05	29.48		48.1	61.0	65.6		45.8	52.0	53.5	66.7	45.8	56.2	83	35		43	44	43	43		84	54	46	61
April	29.64	29.87	29.46		55.6	73.0	78.4		50.7	57.0	58.1	79.8	53.1	66.4	93	42		46	44	41	44		72	37	28	46
May	29.58	29.80	29.33		57.5	76.8	82.0		50.9	58.1	58.9	83.4	55.4	69.4	101	46		45	43	39	42		64	31	23	39
June	29.50	29.68	29.35		63.2	84.1	90.8		53.2	60.9	61.1	92.1	60.9	76.5	104	49		45	43	35	41		52	24	15	30
July	29.52	29.69	29.32	77.4	66.4	85.3	98.5	61.1	55.8	64.2	66.3	99.4	64.2	81.8	109	55	50	47	50	43	48	39	51	31	16	34
August	29.50	29.71	29.30	77.3	65.8	85.0	98.6	61.8	56.7	64.0	66.9	99.4	62.7	81.0	107	53	51	50	50	45	49	41	58	31	17	37
September	29.53	29.80	29.23	71.6	63.7	80.4	89.0	59.7	56.3	62.8	63.9	91.2	60.6	75.9	104	50	51	50	50	46	49	51	64	38	25	44
October	29.66	30.01	29.35	59.3	52.5	69.6	75.5	53.4	49.5	57.0	58.2	78.1	48.5	63.3	91	35	49	47	47	51	48	69	81	47	36	58
November	29.73	29.92	29.50	51.1	44.3	61.0	67.7	46.5	42.0	51.6	53.9	70.4	41.0	55.7	79	34	42	40	43	42	42	71	83	53	40	62
December	29.77	29.96	29.41	46.4	42.1	51.6	58.6	44.3	40.8	47.0	50.7	61.3	38.5	49.9	74	30	42	39	42	43	42	85	90	74	58	77
Year	29.64	30.15	29.23		53.6	69.2	76.2		48.5	55.5	57.1	77.9	50.6	64.2	109	30		44	45	42	44		73	46	35	52

GALVESTON, TEX.

Airport [ϕ=29° 16′ N.; λ=94° 52′ W.] City [ϕ=29° 18′ N.; λ=94° 50′ W.]

	(3 7)	(3 7)	(3 7)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	30.02	30.53	29.54	56.4	55.5	59.6	58.1	54.0	53.3	55.1	54.3	63.1	52.1	57.6	73	41	52	51	51	50	51	85	86	75	78	82
February	29.97	30.56	29.50	56.4	54.5	59.1	59.3	53.6	51.8	54.9	55.0	63.1	51.3	57.2	71	33	51	49	51	51	50	83	83	76	76	79
March	30.01	30.40	29.67	62.4	61.4	65.8	64.7	59.9	58.7	60.7	60.9	68.3	59.3	63.8	76	44	58	56	57	58	57	86	85	75	81	83
April	29.93	30.29	29.57	67.2	65.4	70.6	70.0	63.1	61.9	64.2	63.5	73.3	63.8	68.6	84	44	60	59	60	59	59	80	82	71	71	76
May	29.86	30.06	29.58	73.4	73.9	80.7	77.2	69.9	69.8	72.3	71.4	80.7	72.5	76.6	87	62	68	68	68	69	68	84	81	67	76	79
June	29.88	30.09	29.68	79.0	79.2	85.5	82.3	74.8	74.6	77.0	75.7	85.7	77.7	81.7	90	64	73	73	74	73	73	82	81	68	74	77
July	29.92	30.07	29.67	80.2	79.3	86.7	84.3	76.3	75.9	77.9	77.3	88.0	78.4	83.2	100	70	75	74	75	74	74	84	86	68	74	80
August	29.90	30.07	29.73	79.9	78.3	86.9	83.7	75.7	75.2	77.5	76.2	88.3	78.7	83.5	93	72	74	74	74	73	74	82	87	66	71	79
September	29.92	30.07	29.69	78.0	76.1	85.2	81.1	73.3	72.5	74.9	73.9	85.5	76.0	80.8	90	64	71	71	70	71	71	80	84	62	71	78
October	29.99	30.23	29.81	70.4	68.0	77.8	73.3	65.5	64.2	67.7	66.4	78.1	68.3	73.2	87	51	62	62	61	62	62	77	81	59	70	75
November	30.14	30.54	29.88	57.5	56.0	64.3	60.4	54.1	53.2	56.7	55.7	65.4	55.7	60.6	76	44	51	51	50	51	51	80	83	63	74	78
December	30.02	30.34	29.61	56.5	53.8	64.6	58.6	53.9	51.5	57.0	54.8	65.5	54.2	59.8	76	35	52	49	51	51	50	84	86	63	78	82
Year	29.96	30.54	29.50	68.1	66.8	73.9	71.1	64.5	63.6	66.3	65.4	75.4	65.7	70.6	100	33	62	61	62	62	62	82	84	68	74	79

[1] Airport data beginning with August.
[2] Pressure at airport adjusted to the old (city) station elevation of 857 feet.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 679 feet.
[5] Pressure at airport adjusted to the old (city) station elevation of 327 feet.
[6] Noon local time, Jan. to June, incl.
[7] Pressure at airport adjusted to the old (city) station elevation of 54 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

FORT WAYNE, IND.

Airport [H=827 ft.; H_b=828 ft.; H_t=3 ft.; H_r=3 ft.; H_a=32 ft.] City [H=777 ft.; H_b=857 ft.; H_t=69 ft.; H_r=63 ft.; H_a=84 ft.]

Month	Precipitation			Wind					Number of days—																
					By self-register							Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall	Cloudiness 0 to 10	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	2.89	0.87	13.9	7.5	10.4	W.	34	NE.	1	4	8	19	18	13	16	14	0	7	2	2	3	10	0	0	26	0	0
February	3.66	1.86	7.8	6.5	11.9	W.	36	W.	2	6	9	13	15	12	14	8	0	5	3	0	0	11	0	0	25	0	1
March	2.67	1.66	.6	6.1	11.1	W.	35	W.	3	5	15	11	10	7	5	1	0	6	3	1	0	4	0	0	21	0	2
April	4.49	1.35	T	6.2	10.8	SW.	32	SW.	1	7	11	12	17	13	7	1	0	7	0	0	0	0	0	0	11	0	3
May	1.07	.71	.0	5.1	8.5	SW.	25	W.	0	6	19	6	6	5	0	0	0	2	1	1	1	0	0	0	0	0	3
June	4.15	.81	.0	6.1	8.4	SW.	31	SW.	0	6	13	11	15	11	0	0	0	2	0	0	0	0	5	0	0	0	13
July	2.18	.95	.0	5.2	7.6	NW.	27	NW.	0	12	9	10	8	6	0	0	0	6	0	0	0	0	5	1	0	0	9
August	1.61	.56	.0	4.5	7.5	NE.	26	S.	0	14	12	5	6	5	0	0	1	8	1	1	1	0	0	0	0	0	5
September	.88	.37	.0	3.8	8.2	NW.	25	W.	0	15	11	4	7	5	0	0	0	5	0	0	0	0	7	5	0	0	4
October	3.71	1.99	T	4.9	9.4	SW.	29	W.	0	12	9	10	11	7	1	0	0	8	0	0	0	0	0	0	2	0	5
November	.73	.30	T	5.4	8.9	SW.	26	SW.	0	12	6	12	8	5	1	0	0	13	2	2	0	0	0	0	18	0	0
December	.99	.40	3.8	7.2	11.1	W.	31	NW.	0	5	8	18	10	5	13	6	0	10	2	1	1	9	0	0	22	0	0
Year	29.03	1.99	26.1	5.7	9.5	SW.	36	W.	7	104	130	131	131	94	57	30	1	79	14	8	6	34	17	6	125	0	45

FORT WORTH, TEX.

Airport [H=688 ft. H_b=706 ft.; H_t=35 ft.; H_r=33 ft.; H_a=56 ft.] City [H=616 ft.; H_b=679 ft.; H_t=92 ft.; H_r=85 ft.; H_a=110 ft.]

January	2.66	1.09	0.0	5.0	10.6	S.	39	W.	4	11	8	12	9	6	0	0	0	0	0	0	0	0	0	0	2	0	2
February	2.42	.63	T	4.9	11.8	N.	49	W.	3	12	5	11	12	11	2	0	0	9	3	0	0	2	0	0	10	0	4
March	1.64	.94	.0	3.9	11.2	S.	35	W.	2	15	9	7	6	6	0	0	2	1	1	0	0	0	0	0	1	0	5
April	1.48	1.24	.0	2.8	11.8	N.	43	W.	4	22	3	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	4
May	2.54	1.49	.0	3.0	9.6	S.	41	S.	1	20	7	4	7	4	0	0	0	1	0	0	0	0	9	1	0	0	13
June	4.04	2.18	.0	3.8	11.0	S.	31	S.	0	14	11	5	7	5	0	0	0	0	0	0	0	0	18	6	0	0	8
July	2.02	.63	.0	3.0	10.4	S.	32	W.	1	19	9	3	7	7	0	0	0	0	0	0	0	0	30	25	0	0	7
August	1.44	.97	.0	3.0	8.4	S.	33	SW.	1	17	12	2	4	3	0	0	0	0	0	0	0	0	29	22	0	0	8
September	.12	.09	.0	1.5	9.3	S.	29	N.	0	24	6	0	3	1	0	0	0	0	0	0	0	0	28	19	0	0	2
October	.55	.55	.0	2.5	10.1	S.	31	N.	0	21	5	5	2	2	0	0	0	0	0	0	0	0	7	1	0	0	0
November	2.72	1.16	.0	5.8	8.0	NE.	26	S.	0	11	4	15	8	8	0	0	0	3	0	0	0	0	0	0	1	0	1
December	.68	.39	.0	2.8	9.3	W.	38	NW.	1	20	5	6	3	2	0	0	0	7	1	1	1	0	0	0	4	0	0
Year	22.31	2.18	T	3.5	10.1	S.	49	W.	17	206	84	75	72	59	2	0	2	21	5	1	3	0	121	74	18	0	54

FRESNO, CALIF.

Airport [H=278 ft.; H_b=281 ft.; H_t=5 ft.; H_r=4 ft.; H_a=35 ft.] City [H=287 ft.; H_b=327 ft.; H_t=97 ft.; H_r=89 ft.; H_a=105 ft.]

January	1.99	0.92	0.0	7.3	4.9	E.	21	SE.	0	4	9	18	9	8	0	0	0	19	17	8	12	0	0	0	0	0	1
February	.77	.32	T	5.3	5.8	NW.	21	NW.	0	9	10	9	6	5	1	0	0	3	2	1	0	0	0	0	2	0	0
March	1.88	.60	.0	4.6	5.5	NW.	22	W.	0	13	10	8	8	7	0	0	0	2	0	0	0	0	0	0	0	0	2
April	.37	.35	.0	3.0	6.6	NW.	18	NW.	0	19	8	3	3	2	0	0	0	0	0	0	0	0	3	0	0	0	2
May	.02	.02	.0	2.5	7.8	NW.	25	NW.	0	21	8	2	1	0	0	0	0	0	0	0	0	0	6	3	0	0	1
June	1.66	1.66	.0	1.5	7.4	NW.	40	SE.	1	23	7	0	1	1	0	0	0	0	0	0	0	0	20	15	0	0	1
July	.00	.00	.0	1.4	7.2	NW.	22	NW.	0	25	5	1	0	0	0	0	0	0	0	0	0	0	29	25	0	0	0
August	T	T	.0	1.4	7.0	NW.	19	NW.	0	28	1	2	0	0	0	0	0	0	0	0	0	0	30	27	0	0	0
September	.17	.09	.0	3.6	6.0	NW.	22	SE.	0	16	8	6	4	2	0	0	0	0	0	0	0	0	19	12	0	0	2
October	.99	.39	.0	2.1	4.2	NW.	22	NW.	0	22	6	3	4	4	0	0	0	0	0	0	0	0	2	0	0	0	2
November	.04	.04	.0	2.7	3.5	NW.	22	NW.	0	19	8	3	1	1	0	0	0	4	1	1	1	0	0	0	0	0	0
December	.11	.06	.0	7.3	4.3	SE.	23	NW.	0	3	10	18	3	2	0	0	0	18	10	13	15	0	0	0	2	0	0
Year	8.00	1.66	T	3.6	5.9	NW.	40	SE.	1	202	90	73	40	32	1	0	0	46	30	23	28	0	109	82	4	0	11

GALVESTON, TEX.

Airport [H= 5 ft.; H_b=9 ft.; H_t=4 ft.; H_r=3 ft.; H_a=35 ft.] City [H=6 ft.; H_b=54 ft.; H_t=106 ft.; H_r=98 ft.; H_a=114 ft.]

January	3.75	2.21	0.0	5.4	11.0	S.	30	W.	0	9	11	11	10	7	0	0	0	11	9	7	8	0	0	0	0	0	3
February	1.38	.46	.0	6.0	12.8	SE.	27	S.	0	4	12	12	11	5	0	0	0	14	10	9	8	0	0	0	0	0	1
March	.31	.11	.0	4.8	11.6	S.	26	SE.	0	9	17	5	5	3	0	0	0	13	8	8	7	0	0	0	0	0	2
April	.68	.32	.0	5.4	12.3	S.	30	S.	0	10	9	11	6	5	0	0	0	6	1	0	0	0	0	0	0	0	5
May	1.97	.94	.0	4.5	10.3	S.	33	NW.	1	10	19	2	7	7	0	0	0	0	0	0	0	0	0	0	0	0	7
June	2.58	1.78	.0	4.8	11.6	S.	32	SE.	1	13	11	6	6	6	0	0	0	0	0	0	0	0	1	0	0	0	5
July	13.55	7.31	.0	4.2	10.6	S.	28	NW.	0	14	11	6	9	9	0	0	0	0	0	0	0	0	5	2	0	0	8
August	1.99	1.18	.0	4.3	8.9	S.	22	S.	0	12	15	4	5	5	0	0	0	0	0	0	0	0	7	0	0	0	5
September	3.28	1.36	.0	3.8	9.4	S.	29	NW.	0	17	8	5	9	8	0	0	1	0	0	0	0	0	1	0	0	0	7
October	2.22	1.57	.0	3.5	9.9	S.	28	N.	0	17	11	3	6	4	0	0	0	4	3	3	3	0	0	0	0	0	1
November	2.50	.70	.0	5.2	9.0	N.	24	N.	0	12	6	12	8	8	0	0	0	5	0	0	0	0	0	0	0	0	2
December	2.31	1.35	.0	3.8	9.7	S.	27	N.	0	16	10	5	7	6	0	0	0	6	4	3	6	0	0	0	0	0	3
Year	36.52	7.31	.0	4.6	10.6	S.	33	NW.	2	143	140	82	89	73	0	0	1	59	35	30	32	0	14	2	0	0	49

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

GRAND JUNCTION, COLO.

[ϕ=39°04′ N.; λ=108°34′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	25.41	25.90	24.80	24.9	20.7	29.7	32.9	23.4	20.0	26.4	28.6	37.2	17.6	27.4	44	9	21	18	21	22	20	83	90	67	62	76
February	25.34	25.80	24.68	20.4	16.5	26.1	28.9	19.0	15.3	22.1	24.5	32.5	12.9	22.7	42	−4	16	12	14	16	14	82	83	58	57	70
March	25.38	25.68	24.92	39.7	33.7	46.1	51.4	35.1	30.8	37.4	40.1	54.6	30.8	42.7	72	5	30	27	27	27	28	69	76	49	41	59
April	25.35	25.82	25.04	52.2	45.9	61.3	65.9	41.2	37.9	44.4	46.5	69.2	42.1	55.6	85	28	29	28	25	25	27	41	52	26	23	36
May	25.29	25.56	25.01	61.6	54.2	72.5	77.4	46.9	43.6	50.9	51.7	79.4	52.2	65.8	90	43	32	32	30	26	30	35	46	22	16	30
June	25.30	25.55	24.94	68.8	60.3	78.7	83.8	49.4	46.4	53.4	53.8	86.4	58.0	72.2	98	42	31	33	31	25	30	26	38	19	12	24
July	25.38	25.64	25.18	76.1	67.7	85.8	91.9	56.1	52.2	58.9	60.1	94.7	65.5	80.1	104	59	41	39	39	36	39	30	37	22	17	26
August	25.40	25.56	25.15	72.5	65.2	82.8	88.7	56.6	53.2	59.9	60.3	91.4	62.9	77.2	98	55	45	44	44	40	43	41	49	28	21	35
September	25.43	25.76	25.22	62.4	58.9	72.9	76.0	54.4	51.7	57.2	58.1	79.5	56.3	67.9	93	48	49	46	46	45	46	64	65	43	38	52
October	25.43	25.80	25.00	47.7	44.0	60.2	64.1	40.7	37.3	45.0	46.8	67.6	40.2	53.9	79	30	33	29	29	29	30	59	57	32	29	44
November	25.54	25.76	25.25	38.4	33.2	49.5	52.8	33.0	29.4	38.3	40.4	57.9	30.5	44.2	67	22	26	24	24	25	25	59	67	37	35	50
December	25.50	25.82	25.06	31.0	26.2	39.6	43.0	27.0	23.6	31.8	33.7	47.9	22.0	35.0	59	5	20	19	20	21	20	63	73	45	41	56
Year	25.40	25.90	24.68	49.6	43.9	58.8	63.1	40.2	36.8	43.8	45.4	66.5	40.9	53.7	104	−4	31	29	29	28	29	54	61	37	33	46

GRAND RAPIDS, MICH.

Airport [ϕ=42°54′ N.; λ=85°40′ W.] City [ϕ=42°58′ N.; λ=85°40′ W.]

	[1] [2]	[1] [2]	[1] [2]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]						[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
January	29.19	29.59	28.66	25.6	24.6	29.5	27.3	24.3	23.4	27.5	25.9	34.5	22.7	28.6	57	6	22	21	24	23	22	86	82	79	79	82
February	29.23	29.79	28.45	23.9	22.0	27.1	24.7	22.5	20.9	24.8	23.3	34.5	19.8	27.2	53	9	20	19	21	20	20	81	77	75	72	76
March	29.26	29.73	28.67	28.7	28.3	36.5	33.8	27.2	26.9	32.1	31.1	42.4	25.9	34.2	78	9	25	24	25	27	25	84	81	66	69	75
April	29.16	29.72	28.67	37.2	36.4	48.7	45.4	35.3	34.5	41.3	39.8	52.4	35.6	44.0	82	19	33	32	33	34	33	84	79	56	62	70
May	29.20	29.56	28.66	54.2	54.3	69.8	66.1	50.2	50.1	57.1	56.3	73.0	51.5	62.2	89	34	46	46	47	48	47	76	71	45	49	60
June	29.17	29.48	28.62	63.0	63.9	76.1	73.2	60.6	60.9	66.0	65.0	80.2	60.0	70.1	92	45	59	59	61	60	60	88	79	60	61	72
July	29.21	29.42	28.91	64.6	65.6	81.2	78.5	60.9	62.1	67.2	66.1	84.8	63.5	74.2	97	49	58	60	59	59	59	81	82	49	53	66
August	29.20	29.54	28.86	64.7	63.1	79.1	75.2	61.8	60.9	66.2	65.5	82.2	62.7	72.4	91	56	60	60	59	60	60	86	89	52	61	72
September	29.24	29.68	28.84	59.2	56.6	72.5	66.1	55.9	54.3	61.1	59.0	77.0	55.1	66.0	97	35	54	53	54	54	54	83	87	53	67	72
October	29.22	29.66	28.75	46.5	44.9	58.0	51.7	43.8	42.7	49.7	47.5	62.2	43.3	52.8	84	32	41	40	42	43	42	82	85	57	74	74
November	29.44	29.92	28.88	32.9	31.9	44.6	37.7	31.1	30.8	38.9	34.6	47.5	32.7	40.1	60	24	29	29	32	30	30	84	89	61	74	77
December	29.11	29.55	28.67	31.5	30.5	35.7	31.7	29.7	28.9	32.5	29.6	39.4	28.5	34.0	55	11	27	26	28	26	27	82	84	73	79	80
Year	29.22	29.92	28.45	44.3	42.7	54.9	51.0	41.9	41.4	47.0	45.3	59.2	41.8	50.5	97	6	40	39	40	40	40	83	82	60	67	73

GREEN BAY, WIS.

[ϕ=44°31′ N.; λ=88°00′ W.]

January	29.27	29.72	28.53	22.6	21.2	24.5	24.6	21.2	20.1	22.5	22.8	29.5	16.7	23.1	49	−6	18	17	18	19	18	82	84	74	77	80
February	29.31	29.86	28.38	16.0	12.0	18.4	19.7	14.7	11.1	16.4	16.7	26.3	6.9	16.6	40	−10	11	8	10	12	10	80	84	68	69	76
March	29.36	29.85	28.55	27.3	24.4	31.7	32.4	25.3	22.8	27.8	28.6	37.2	21.2	29.2	69	−2	21	19	20	21	20	76	79	61	63	71
April	29.25	29.76	28.73	38.9	36.2	44.2	45.7	35.3	33.4	38.0	39.3	49.2	33.0	41.1	82	17	30	30	29	31	30	71	76	58	57	67
May	29.27	29.72	28.76	54.2	52.3	64.7	63.7	49.3	47.6	53.6	54.4	69.6	48.1	58.8	92	32	45	43	44	46	44	71	71	50	55	63
June	29.24	29.55	28.69	63.0	63.6	71.3	70.5	59.9	59.4	62.4	62.5	75.5	58.6	67.0	87	44	58	57	57	58	57	84	79	63	66	72
July	29.31	29.52	29.05	67.9	66.9	79.7	79.0	62.2	61.9	65.5	65.7	83.4	63.0	73.2	94	53	59	59	57	58	58	73	76	48	50	63
August	29.29	29.68	28.87	65.3	63.7	75.1	74.7	61.5	60.6	64.2	64.3	78.8	61.1	70.0	91	52	59	59	58	58	59	81	84	57	59	72
September	29.33	29.76	28.83	60.3	56.6	68.0	65.8	56.3	53.5	57.8	57.9	72.1	53.0	62.6	94	32	53	51	50	52	52	78	82	55	63	72
October	29.28	29.81	28.82	46.6	43.9	53.1	49.6	42.7	40.9	44.6	44.1	57.0	40.9	49.0	77	27	38	37	35	38	38	74	77	53	65	71
November	29.54	30.06	28.98	34.9	32.6	41.0	38.6	32.2	30.3	35.3	34.0	45.2	29.9	37.6	64	20	28	26	27	28	27	76	77	57	63	70
December	29.20	29.68	28.69	31.0	29.4	33.4	31.6	28.6	27.2	29.8	28.5	36.5	25.3	30.9	55	−1	25	23	23	23	23	75	77	66	68	73
Year	29.30	30.06	28.38	44.0	41.9	50.4	49.7	40.8	39.1	43.2	43.2	55.0	38.1	46.6	94	−10	37	36	36	37	36	77	79	59	63	71

GREENSBORO, N. C. (Airport)

[ϕ=36°05′ N.; λ=79°57′ W.]

January	29.13	29.53	28.51	37.4	34.6	49.8	43.1	34.4	32.5	41.5	38.4	52.4	30.3	41.4	70	16	30	29	31	32	30	76	81	50	65	68
February	29.18	29.64	28.58	41.1	38.7	50.8	47.3	38.9	37.0	44.6	43.4	56.2	34.2	45.2	74	15	36	35	37	38	36	81	84	62	72	75
March	29.15	29.61	28.50	46.2	42.7	58.9	54.1	41.9	40.1	48.3	46.6	63.1	39.6	51.4	83	22	37	37	37	38	37	71	80	48	58	64
April	29.06	29.54	28.62	50.2	48.6	64.0	59.3	46.0	45.0	52.2	50.5	67.9	43.5	55.7	83	28	41	41	40	42	41	74	75	46	56	63
May	29.09	29.32	28.74	59.5	60.1	75.2	69.7	56.7	57.3	61.7	61.2	78.0	55.3	66.6	92	37	54	55	52	56	54	84	84	48	63	70
June	29.09	29.27	28.85	70.7	72.3	84.8	79.0	68.0	68.5	71.5	70.9	87.9	67.7	77.8	94	62	67	67	65	67	66	88	83	54	69	74
July	29.08	29.28	28.84	69.6	70.6	83.5	77.7	67.3	68.0	71.0	70.3	86.2	67.2	76.7	94	60	66	67	65	67	66	89	88	55	71	76
August	29.08	29.32	28.75	69.3	69.7	83.1	75.9	68.0	68.0	71.9	71.1	85.5	66.9	76.2	91	59	68	67	67	69	68	94	92	59	80	81
September	29.14	29.50	28.90	64.7	63.5	82.5	73.6	62.4	61.5	67.7	67.3	85.3	60.4	72.8	99	50	61	60	60	64	61	88	89	47	73	74
October	29.15	29.52	28.74	54.5	52.0	71.5	61.0	51.5	50.2	58.0	55.4	74.0	48.4	61.2	91	29	49	48	48	51	49	82	89	46	71	72
November	29.28	29.59	28.99	39.1	36.7	55.1	44.7	36.1	34.2	43.7	40.2	57.3	32.9	45.1	73	22	32	31	29	35	32	77	80	43	70	68
December	29.05	29.54	28.65	36.9	33.3	48.9	41.1	34.2	31.2	40.4	37.2	51.0	30.0	40.5	71	19	30	28	29	32	30	77	81	49	72	70
Year	29.11	29.64	28.50	53.3	51.9	67.3	60.5	50.4	49.1	56.0	54.4	70.4	48.0	59.2	99	15	48	47	47	49	48	82	84	51	68	71

[1] Airport data beginning with July.

[2] Pressure at airport adjusted to the old (city) station elevation of 707 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

GRAND JUNCTION, COLO.

[H=4,587 ft.; H_b=4,602 ft.; H_t=60 ft.; H_r=52 ft.; H_a=68 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.95	0.31	6.6	5.8	4.4	N.	21	W.	0	10	7	14	6	6	8	6	0	0	0	0	0	2	0	0	31	0	0
February	.83	.24	9.3	4.9	5.6	N.	26	W.	0	10	9	9	10	7	13	10	0	2	1	0	0	13	0	0	28	1	0
March	1.04	.30	3.2	3.9	5.4	N.	24	SW.	0	17	8	6	10	8	4	4	0	2	1	0	0	1	0	0	17	0	1
April	.05	.04	.0	4.3	7.1	SE.	29	S.	0	12	11	7	2	1	0	0	0	0	0	0	0	0	0	0	1	0	1
May	.34	.31	.0	3.5	7.5	SE.	34	SW.	1	14	17	0	2	1	0	0	0	0	0	0	0	0	1	0	0	0	3
June	.11	.10	.0	3.0	8.4	N.	40	S.	3	16	14	0	2	1	0	0	0	0	0	0	0	0	12	4	0	0	4
July	.34	.32	.0	3.0	6.6	SE.	29	S.	0	19	7	5	2	1	0	0	0	0	0	0	0	0	24	17	0	0	5
August	.68	.47	.0	3.2	5.9	SE.	24	W.	0	20	6	5	2	2	0	0	0	0	0	0	0	0	23	7	0	0	5
September	2.37	.84	.0	4.4	5.4	SE.	24	W.	0	14	6	10	10	8	0	0	0	0	0	0	0	0	2	0	0	0	5
October	.44	.27	.0	2.6	5.9	SE.	30	S.	0	19	8	4	4	2	0	0	0	0	0	0	0	0	0	0	2	0	1
November	.30	.30	.0	2.1	4.7	SE.	17	NE.	0	24	2	4	1	1	0	0	0	0	0	0	0	0	0	0	20	0	0
December	.13	.10	1.4	4.3	4.4	SE.	23	NW.	0	15	7	9	2	1	3	2	0	0	0	0	0	2	0	0	31	0	0
Year	7.58	.84	20.5	3.8	5.9	SE.	40	S.	4	190	102	73	53	39	28	22	0	4	2	0	0	18	62	28	130	1	25

GRAND RAPIDS, MICH.

Airport [H=684 ft.; H_b=689 ft.; H_t=5 ft.; H_r=3 ft.; H_a=48 ft.] City [H=638 ft.; H_b=707 ft.; H_t=70 ft.; H_r=70 ft.; H_a=244 ft.]

January	2.48	0.59	21.5	8.7	12.6	SW.	52	SW.	7	1	5	25	18	13	19	14	1	4	1	0	1	14	0	0	25	0	1
February	3.29	1.33	11.2	7.5	13.7	SW.	53	SW.	7	4	4	20	16	9	17	12	0	1	1	1	0	11	0	0	24	0	2
March	1.21	.42	11.0	7.0	12.8	SW.	52	SW.	4	5	10	16	15	10	13	10	0	4	0	0	0	6	0	0	24	0	2
April	4.16	1.61	4.9	7.0	12.6	SW.	40	SW.	3	6	6	18	14	11	11	7	1	8	2	0	0	0	0	0	10	0	2
May	1.12	.30	.0	4.2	10.9	SW.	37	SW.	2	16	10	5	13	9	0	0	0	1	1	0	0	0	0	0	0	0	5
June	7.08	1.97	.0	6.1	10.3	SW.	36	SW.	2	5	11	14	19	12	0	0	0	1	0	0	0	0	3	0	0	0	12
July	.46	.17	.0	4.0	9.2	SW.	30	SW.	0	16	8	7	7	4	0	0	0	3	1	1	1	0	6	1	0	0	6
August	6.22	4.22	.0	4.6	9.2	SW.	34	SW.	2	13	11	7	9	7	0	0	0	4	2	2	1	0	1	0	0	0	6
September	1.98	.89	.0	4.0	10.1	S.	35	S.	2	15	9	6	8	5	0	0	0	2	1	0	0	0	5	2	0	0	4
October	2.64	.75	T	6.2	11.9	SW.	42	SW.	8	7	9	15	17	12	4	1	0	3	1	0	0	0	0	0	1	0	2
November	.76	.37	.8	5.3	10.8	SW.	43	SW.	1	10	7	13	6	4	2	1	0	6	3	2	2	0	0	0	14	0	0
December	1.09	.45	7.3	8.1	12.3	SW.	36	SW.	3	2	8	21	12	7	10	6	0	3	1	0	0	5	0	0	19	0	1
Year	32.49	4.22	56.7	6.1	11.4	SW.	53	SW.	41	100	98	167	154	103	76	51	2	40	14	6	5	36	15	3	117	0	43

GREEN BAY, WIS.

[H=589 ft.; H_b=617 ft.; H_t=109 ft.; H_r=101 ft.; H_a=141 ft.]

January	1.83	1.05	7.7	8.0	11.2	S.	32	S.	2	4	4	23	12	9	20	8	0	2	0	0	1	20	0	0	29	2	0
February	1.33	.53	9.3	6.8	12.5	SW.	40	SW.	2	6	5	17	9	9	17	6	0	0	0	0	0	18	0	0	28	10	0
March	.77	.31	8.2	6.1	12.2	SW.	38	W.	1	9	10	12	8	4	15	5	0	2	0	0	1	8	0	0	28	1	0
April	1.94	.88	.2	7.4	10.9	W.	32	NW.	1	4	9	17	10	8	7	2	0	4	3	1	3	3	0	0	14	0	0
May	2.39	1.29	.0	5.4	11.2	S.	30	NW.	0	9	10	12	7	7	0	0	0	5	1	0	1	0	1	0	1	0	5
June	4.56	1.44	.0	7.2	10.3	S.	38	NW.	2	2	12	16	14	13	0	0	0	1	1	0	0	0	0	0	0	0	7
July	.79	.57	.0	4.7	9.1	S.	30	NW.	0	13	9	9	6	4	0	0	0	0	0	0	0	0	4	0	0	0	4
August	2.27	1.50	.0	5.6	8.9	SW.	32	NE.	1	10	7	14	8	8	0	0	0	0	0	0	0	0	1	0	0	0	3
September	3.27	2.15	.0	5.0	10.4	S.	31	SW.	0	13	6	11	9	6	0	0	0	0	0	0	0	0	4	0	0	0	7
October	2.83	1.46	T	6.5	10.8	S.	31	SW.	0	6	11	14	8	7	4	0	0	4	2	0	2	0	0	0	4	0	4
November	.45	.35	T	5.4	9.3	W.	28	SW.	0	10	9	11	5	2	2	0	0	5	2	2	2	0	0	0	20	0	1
December	.68	.33	1.2	6.8	11.2	NW.	31	NW.	0	7	7	17	6	4	10	2	0	6	2	0	1	11	0	0	24	1	0
Year	23.11	2.15	26.6	6.2	10.7	S.	40	SW.	9	93	99	173	102	81	75	23	0	29	11	3	11	60	10	0	148	14	31

GREENSBORO, N. C. (Airport)

[H=891 ft.; H_b=886 ft.; H_t=6 ft.; H_r=3 ft.; H_a=56 ft.]

January	3.16	1.05	T	4.9	8.4	SW.	31	SW.	0	14	5	12	9	8	1	0	0	12	2	0	2	0	0	0	22	0	1
February	6.40	1.59	0.0	6.6	8.9	SW.	33	SW.	1	7	6	15	14	12	0	0	0	16	2	1	1	0	0	0	13	0	2
March	2.55	.70	.2	5.8	9.0	SW.	29	SW.	0	10	6	15	9	8	1	1	0	11	2	2	0	0	0	0	5	0	3
April	2.77	.59	.0	4.2	10.0	SW.	37	NE.	1	13	11	6	11	10	0	0	1	11	2	3	3	0	0	0	4	0	6
May	2.18	1.27	.0	5.8	7.7	SW.	25	NE.	0	6	13	12	8	6	0	0	0	13	2	3	0	0	1	0	0	0	5
June	5.24	1.57	.0	6.5	7.2	SW.	40	NW.	1	4	11	15	11	8	0	0	1	13	5	2	1	0	10	0	0	0	13
July	4.18	2.25	.0	6.2	7.0	SW.	25	N.	0	4	15	12	15	11	0	0	0	22	6	4	2	0	6	0	0	0	12
August	12.53	2.47	.0	6.4	6.3	SW.	28	SE.	0	6	11	14	12	10	0	0	1	24	4	1	1	0	3	0	0	0	15
September	.13	.08	.0	4.3	6.7	NE.	34	NW.	1	14	9	7	5	1	0	0	0	15	2	1	1	0	5	2	0	0	5
October	2.12	.93	.0	4.3	7.5	SW.	25	NW.	0	14	8	9	5	5	0	0	0	16	2	3	3	0	1	0	1	0	3
November	1.64	.69	T	4.6	7.5	NE.	20	NW.	0	14	6	10	7	5	1	1	0	9	2	0	0	0	0	0	15	0	0
December	2.84	.97	1.0	5.1	8.0	SW.	26	NW.	0	11	10	10	11	10	2	2	1	15	4	3	1	0	0	0	18	0	2
Year	45.74	2.47	1.2	5.4	7.8	SW.	40	NW.	4	117	111	137	117	94	5	4	4	177	35	23	15	0	26	2	78	0	67

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

GREENVILLE, S. C.

[ϕ=34°50′ N.; λ=82°24′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	■ (1)	°	°	°	° (1)	°	°	°	°	°	■	°	° (1)	°	°	%	%	% (1)	%	%
January	28.98	29.35	28.42		38.5	50.8	47.4		36.0	43.2	41.2	55.0	35.3	45.2	70	26		32	34	33	33		78	56	59	64
February	29.00	29.44	28.38		43.1	52.4	50.9		40.8	46.4	45.7	57.8	39.4	48.6	74	17		38	40	40	39		80	64	67	70
March	28.99	29.44	28.41		47.2	60.1	58.9		43.0	49.6	48.7	66.0	44.6	55.3	82	30		38	38	38	38		72	50	49	57
April	28.90	29.38	28.52		53.0	65.5	63.7		47.6	53.2	52.1	70.9	48.6	59.8	84	36		42	42	40	41		67	45	46	53
May	28.92	29.17	28.64		63.3	74.8	71.4		58.7	62.3	62.0	78.3	57.3	67.8	92	42		55	54	55	55		77	51	60	63
June	28.93	29.10	28.73		74.3	85.9	81.8		69.1	70.9	70.8	89.4	70.0	79.7	98	66		67	64	66	66		78	49	60	62
July	28.91	29.08	28.70		73.1	86.8	81.5		68.6	72.2	70.8	89.7	69.3	79.5	100	62		66	65	66	66		80	51	62	64
August	28.91	29.14	28.60		71.3	83.9	77.7		68.1	71.2	70.7	86.6	67.4	77.0	97	61		67	65	68	67		85	55	72	71
September	28.97	29.28	28.75		68.0	82.9	76.9		63.2	67.6	66.8	85.7	65.3	75.5	101	57		60	60	62	61		78	47	60	62
October	28.99	29.29	28.65		56.6	73.4	66.7		52.8	58.8	57.0	76.4	53.4	64.9	90	37		49	47	49	48		77	42	55	58
November	29.12	29.42	28.82		42.9	57.9	52.1		38.6	46.5	45.0	59.7	40.1	49.9	74	33		33	33	37	34		69	45	59	58
December	28.89	29.38	28.53		39.2	52.0	47.2		35.4	43.3	41.3	55.4	35.4	45.4	71	26		30	33	34	32		70	52	63	62
Year	28.96	29.44	28.38		55.9	68.9	64.7		51.8	57.1	56.0	72.6	52.2	62.4	101	17		48	48	49	48		76	51	59	62

HARRISBURG, PA.

Airport [ϕ=40°13′ N.; λ=76°51′ W.] City [ϕ=40°16′ N.; λ=76°53′ W.]

	(2 3)	(2 3)	(2 3)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)						(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
January	29.66	30.05	29.01	30.0	28.1	35.7	32.7	27.7	26.1	31.0	29.6	39.3	24.2	31.8	57	8	23	22	23	24	23	76	78	60	69	71
February	29.75	30.28	28.93	33.5	30.7	40.5	37.3	30.7	29.0	34.9	33.3	45.3	27.3	36.3	69	13	26	25	26	27	26	73	78	57	66	68
March	29.70	30.23	29.12	37.0	34.5	45.9	42.7	33.8	31.6	38.5	37.4	50.6	30.8	40.7	81	17	29	26	28	30	28	71	72	51	61	63
April	29.58	29.99	29.14	45.2	44.6	54.1	50.7	40.8	40.6	45.7	44.2	58.3	38.9	48.6	86	28	35	35	36	36	36	70	70	53	61	64
May	29.60	29.92	29.04	59.8	60.1	74.5	70.8	53.7	54.1	59.6	58.5	78.8	53.9	66.4	97	36	48	49	48	49	48	67	68	41	47	56
June	29.61	29.86	29.30	66.3	68.4	80.1	76.1	61.8	62.2	66.7	66.2	83.3	61.7	72.5	98	52	59	58	59	60	59	78	71	51	61	65
July	29.58	29.86	29.20	68.6	70.0	82.0	78.2	64.4	64.7	68.1	66.9	86.0	64.4	75.2	96	51	62	62	60	60	61	80	76	50	56	65
August	29.58	29.85	29.36	70.8	71.1	85.1	78.8	67.0	66.6	69.7	69.3	88.4	65.9	77.2	95	58	65	64	62	64	64	82	79	47	62	65
September	29.65	30.12	29.26	62.2	61.2	76.0	69.0	58.8	58.5	63.6	61.5	78.9	57.0	68.0	99	42	56	56	56	57	56	82	85	52	66	72
October	29.66	30.10	29.12	51.0	49.5	62.3	56.2	47.9	46.5	52.9	50.6	65.7	45.7	55.7	89	30	45	43	44	45	44	80	80	55	68	71
November	29.80	30.14	29.36	39.5	36.9	49.4	43.8	35.3	33.4	40.4	37.7	51.7	33.8	42.8	69	25	29	28	28	29	29	67	70	45	57	60
December	29.51	30.07	29.04	35.0	33.2	39.4	36.4	31.6	30.4	34.5	32.6	42.1	29.6	35.8	62	12	26	26	27	26	26	69	72	61	66	67
Year	29.64	30.28	28.93	49.9	49.0	60.4	56.1	46.1	45.3	50.5	49.0	64.0	44.4	54.2	99	8	42	41	41	42	42	75	75	52	62	66

HARTFORD, CONN.

Airport [ϕ=41°44′ N.; λ=72°39′ W.] City [ϕ=41°46′ N.; λ=72°40′ W.]

	(2 4)	(2 4)	(2 4)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)						(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
January	29.83	30.33	29.06		26.2				23.2			34.3	20.6	27.4	51	2		16			16		65			65
February	29.93	30.50	29.13		27.9				25.7			39.6	23.4	31.5	66	6		21			21		72			72
March	29.89	30.40	29.26		30.1				27.5			41.5	26.7	34.1	62	9		22			22		70			70
April	29.75	30.30	29.14		40.7				37.3			54.0	36.9	45.4	81	27		32			32		71			71
May	29.79	30.14	29.28		56.5				50.2			73.0	50.6	61.8	92	34		44			44		64			64
June	29.81	30.09	29.49		65.1				59.3			78.8	58.3	68.6	90	48		55			55		72			72
July	29.79	30.12	29.41	63.0	68.1	81.3	73.7	61.1	64.0	67.8	66.3	83.3	62.9	73.1	93	53	60	62	60	62	61	89	81	50	68	72
August	29.80	30.13	29.56	66.9	69.4	81.9	74.0	65.4	66.8	70.6	68.2	84.3	66.2	75.2	91	59	64	65	65	65	65	92	87	58	74	78
September	29.86	30.39	29.48	55.8	58.5	72.0	62.5	54.2	56.2	61.6	58.4	73.9	53.8	63.8	90	41	53	54	54	55	54	91	88	57	79	79
October	29.84	30.25	29.11	46.2	45.9	59.4	50.8	43.9	43.8	51.2	47.3	62.8	43.1	53.0	89	29	41	41	43	43	42	82	84	58	77	75
November	29.86	30.38	29.34	33.6	32.0	46.1	36.9	31.1	29.6	38.1	32.9	47.9	31.6	39.8	63	21	27	26	26	26	26	76	76	46	65	66
December	29.65	30.27	29.05	28.1	27.9	35.8	30.8	26.1	26.1	31.4	27.9	39.8	24.8	32.3	55	7	22	22	23	22	22	77	77	57	68	70
Year	29.82	30.50	29.05		45.7				42.5			59.4	41.6	50.5	93	2		38			38		76			71

HATTERAS, N. C.

[ϕ=35°15′ N.; λ=75°40′ W.]

January	30.07	30.52	29.44	48.2	47.5	54.0	49.4	45.6	45.0	49.5	46.5	57.4	43.2	50.3	70	32	43	42	45	43	43	81	81	72	80	78
February	30.15	30.58	29.53	52.1	51.2	56.7	52.8	49.6	49.0	52.7	50.6	60.7	46.1	53.4	70	30	47	46	49	48	48	82	84	76	85	82
March	30.08	30.53	29.42	55.0	55.1	59.5	54.9	52.3	52.2	54.6	51.7	62.7	49.1	55.9	74	38	50	50	51	49	50	83	82	73	80	80
April	30.00	30.46	29.58	59.2	60.0	65.7	61.2	55.6	56.2	58.5	56.7	68.1	54.8	61.4	77	41	53	53	53	53	53	80	78	65	75	74
May	30.01	30.30	29.67	63.9	66.4	70.3	65.8	61.6	62.9	65.0	62.5	72.1	61.7	66.9	82	48	60	61	62	60	61	88	82	76	83	82
June	30.00	30.20	29.81	73.9	76.9	80.4	75.8	70.8	72.9	74.5	72.0	82.1	71.4	76.8	88	65	69	71	72	70	70	86	83	77	83	82
July	29.99	30.18	29.72	76.0	78.2	81.8	77.3	72.3	73.6	74.9	72.9	83.1	73.0	78.0	87	66	70	72	72	71	71	84	81	73	81	80
August	29.97	30.24	29.73	76.8	79.0	83.3	78.4	73.9	75.4	77.0	74.8	84.7	74.6	79.6	88	67	73	74	75	73	74	87	85	75	84	83
September	30.02	30.33	29.78	73.5	74.8	80.0	75.0	70.6	71.3	72.9	70.5	81.0	71.3	76.2	91	66	69	70	70	68	69	87	84	73	80	81
October	30.04	30.40	29.51	66.7	67.3	72.6	66.8	63.8	64.1	66.2	62.7	74.7	62.9	68.8	84	53	62	62	62	60	62	86	84	71	80	80
November	30.16	30.44	29.73	51.5	51.3	56.9	52.3	48.7	48.4	51.5	49.1	58.9	47.7	53.3	68	40	46	46	47	46	46	82	81	69	80	78
December	29.97	30.47	29.53	47.0	46.4	52.0	48.6	44.4	43.8	46.9	44.9	54.5	42.5	48.5	67	32	42	41	42	41	42	81	81	69	75	76
Year	30.04	30.58	29.42	62.0	62.8	67.8	63.2	59.1	59.6	62.0	59.6	70.0	58.2	64.1	91	30	57	57	58	57	57	84	82	72	80	80

[1] Local noon from January to June, inclusive.
[2] Airport data beginning with July.
[3] Pressure at airport adjusted to the old (city) station elevation of 374 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 159 feet

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

GREENVILLE, S. C.

[H=970 ft.; H_b=1,040 ft.; H_t=70 ft.; H_r=69 ft.; H_a=78 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	4.88	1.37	T	5.1	7.3	SW.	31	SW.	0	12	9	10	12	10	2	2	0	8	4	4	1	0	0	0	13	0	1
February	8.69	1.40	0.0	6.7	7.9	SW.	37	SW.	1	6	7	15	14	13	0	0	0	11	5	4	3	0	0	0	5	0	4
March	3.88	1.56	T	5.2	7.7	SW.	28	W.	0	12	8	11	11	10	1	0	0	6	3	1	1	0	0	0	3	0	1
April	3.24	2.16	.0	4.7	8.8	SW.	27	SW.	0	11	12	7	8	6	0	0	0	2	0	0	0	0	0	0	0	0	5
May	3.82	2.12	.0	6.2	6.3	SW.	29	SW.	0	7	10	14	9	9	0	0	0	1	0	0	0	0	1	0	0	0	7
June	1.97	1.25	.0	6.3	6.6	SW.	26	SW.	0	3	16	11	9	7	0	0	1	2	0	0	0	0	14	3	0	0	10
July	5.70	2.65	.0	6.0	6.1	SW.	38	SW.	1	6	14	11	11	7	0	0	0	4	1	0	0	0	14	3	0	0	13
August	7.16	3.63	.0	5.5	5.5	SW.	23	W.	0	7	15	9	12	10	0	0	0	6	1	0	0	0	6	1	0	0	13
September	.56	.51	.0	4.6	5.8	NE.	19	E.	0	13	11	6	5	2	0	0	0	2	1	1	0	0	6	2	0	0	4
October	1.14	.63	.0	3.8	6.1	SW.	24	SW.	0	14	13	4	4	4	0	0	0	0	0	0	0	0	2	0	0	0	1
November	.42	.15	.0	5.0	5.6	NE.	25	W.	0	14	3	13	7	4	0	0	0	4	0	0	0	0	0	0	0	0	0
December	4.36	1.37	T	4.3	7.1	SW.	24	SW.	0	16	8	7	10	8	1	0	0	10	3	1	1	0	0	0	8	0	0
Year	45.82	3.63	T	5.3	6.7	SW.	38	SW.	2	121	126	118	112	90	4	2	1	56	18	11	6	0	43	9	29	0	59

HARRISBURG, PA.

Airport [H=335 ft.; H_b=351 ft.; H_t=30 ft.; H_r=29 ft.; H_a=49 ft.] City [H=338 ft.; H_b=374 ft.; H_t=94 ft.; H_r=42 ft.; H_a=104 ft.]

January	3.06	1.45	15.1	7.2	8.3	NW.	38	NW.	2	6	9	16	14	8	14	8	0	15	4	2	2	6	0	0	23	0	1
February	4.00	1.16	1.1	6.2	9.5	NW.	42	SW.	1	8	7	13	12	9	9	4	0	13	6	5	3	1	0	0	22	0	0
March	2.55	.60	2.2	6.0	9.9	NW.	41	NW.	1	10	9	12	12	11	8	3	0	15	3	1	0	1	0	0	20	0	2
April	2.79	.63	T	7.4	10.0	NW.	34	SW.	1	2	12	16	15	12	3	1	0	12	3	2	1	0	0	0	7	0	2
May	.54	.25	.0	5.1	7.6	W.	26	SW.	0	10	13	8	5	3	0	0	0	6	1	1	0	0	4	1	0	0	5
June	2.44	.72	.0	6.8	7.6	W.	34	SW.	1	4	13	13	13	11	0	0	0	9	1	1	1	0	5	1	0	0	6
July	1.63	.64	.0	6.0	7.6	SE.	31	S.	0	7	12	12	9	8	0	0	0	14	1	1	1	0	10	1	0	0	5
August	4.09	1.58	.0	6.0	6.8	W.	34	E.	1	10	6	15	10	8	0	0	0	12	1	1	1	0	15	1	0	0	8
September	3.43	1.47	.0	5.7	6.9	SE.	23	S.	0	11	7	12	10	7	0	0	0	16	2	1	1	0	2	1	0	0	5
October	3.88	1.39	T	5.9	7.1	W.	31	NW.	0	12	4	15	10	9	1	0	0	17	6	6	5	0	0	0	2	0	1
November	.53	.45	T	4.4	8.1	W.	28	SW.	0	13	9	8	6	3	2	0	0	3	0	0	0	0	0	0	10	0	0
December	1.90	.78	5.3	7.5	9.8	W.	34	NW.	2	4	8	19	9	7	8	3	0	11	1	1	1	4	0	0	20	0	0
Year	30.84	1.58	23.7	6.2	8.3	W.	42	SW.	9	97	109	159	125	96	45	19	0	143	29	22	16	12	36	5	104	0	35

HARTFORD, CONN.

Airport [H=15 ft.; H_b=21 ft.; H_t=5 ft.; H_r=3 ft.; H_a=44 ft.] City [H=62 ft.; H_b=159 ft.; H_t=66 ft.; H_r=58 ft.; H_a=100 ft.]

January	3.62	1.56	11.8	7.0	9.2	N.	32	NW.	1	5	10	16	13	10	14	8	0	2	1	0	0	14	0	0	25	0	0
February	4.72	1.17	8.6	6.9	7.2	NW.	38	SW.	1	6	8	14	14	13	9	7	0	7	4	0	2	3	0	0	24	0	0
March	4.59	1.09	15.2	6.1	8.0	NW.	26	NW.	0	10	6	15	13	12	10	5	0	7	3	0	1	4	0	0	21	0	0
April	4.37	1.24	1.0	6.7	9.0	NW.	32	NW.	1	5	12	13	14	10	4	1	0	9	1	1	0	0	0	0	7	0	5
May	.96	.40	.0	6.2	8.2	S.	24	W.	0	4	15	12	6	5	0	0	0	3	0	2	0	0	2	0	0	0	4
June	3.21	1.08	.0	6.1	8.0	S.	27	N.	0	9	9	12	11	9	0	0	0	10	1	2	2	0	0	0	0	0	8
July	2.80	1.22	.0	6.3	7.4	S.	30	NW.	0	6	14	11	12	9	0	0	1	7	0	1	2	0	2	0	0	0	7
August	3.68	1.30	.0	6.3	7.7	S.	25	W.	0	9	7	15	10	8	0	0	0	9	2	0	2	0	3	0	0	0	8
September	2.73	1.38	.0	5.6	7.8	S.	25	NW.	0	10	9	11	7	7	0	0	0	12	3	2	3	0	1	0	0	0	7
October	4.64	1.90	.0	5.8	8.5	S.	28	W.	0	9	9	13	11	10	0	0	0	7	4	2	3	0	0	0	5	0	2
November	1.43	1.43	T	4.7	9.1	N.	31	NW.	0	15	8	7	1	1	2	0	0	2	0	0	0	0	0	0	15	0	0
December	3.79	1.36	9.3	7.0	9.2	NW.	35	NW.	1	6	7	18	11	8	8	4	0	5	0	1	1	5	0	0	24	0	0
Year	40.54	1.90	45.9	6.2	8.3	S.	38	SW.	4	94	114	157	123	102	47	25	1	80	19	11	16	26	8	0	121	0	41

HATTERAS, N. C.

[H=7 ft.; H_b=11 ft.; H_t=5 ft.; H_r=4 ft.; H_a=50 ft.]

January	5.92	3.44	0.0	4.6	14.6	W.	45	NW.	6	13	11	7	9	8	0	0	0	1	0	0	0	0	0	0	2	0	3
February	5.86	1.47	.0	5.7	13.6	SW.	39	NW.	6	10	7	11	11	11	0	0	0	9	1	0	0	0	0	0	1	0	3
March	2.83	1.74	.0	4.4	15.2	SW.	37	N.	3	15	7	9	9	8	0	0	0	3	0	0	1	0	0	0	0	0	3
April	3.08	1.17	.0	4.5	14.5	SW.	36	W.	5	15	7	8	10	6	0	0	0	1	0	0	0	0	0	0	0	0	5
May	2.95	1.60	.0	5.1	13.5	SW.	50	N.	2	10	11	10	5	5	0	0	0	0	0	0	0	0	0	0	0	0	7
June	4.95	1.82	.0	4.9	11.7	SW.	35	W.	1	11	11	8	11	7	0	0	0	0	0	0	0	0	0	0	0	0	9
July	5.84	2.33	.0	5.0	10.9	SW.	49	NW.	1	10	12	9	16	12	0	0	0	0	0	0	0	0	0	0	0	0	14
August	6.52	3.73	.0	5.6	9.7	SW.	34	W.	1	8	14	9	8	8	0	0	0	0	0	0	0	0	0	0	0	0	9
September	2.52	1.24	.0	5.6	11.2	NE.	31	SE.	0	9	11	10	8	7	0	0	0	0	0	0	0	0	1	0	0	0	3
October	5.72	2.22	.0	5.1	13.0	SW.	40	NW.	2	12	9	10	10	9	0	0	0	0	0	0	0	0	0	0	0	0	3
November	5.76	3.72	.0	4.3	14.7	N.	34	NW.	3	16	4	10	7	6	0	0	0	1	0	0	0	0	0	0	0	0	1
December	3.01	1.09	.0	4.9	14.5	W.	41	N.	2	14	7	10	9	8	0	0	0	3	1	0	0	0	0	0	1	0	0
Year	54.96	3.73	.0	5.0	13.1	SW.	50	N.	32	143	111	111	113	95	0	0	0	18	2	0	1	0	1	0	4	0	60

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

HAVRE, MONT.

[ϕ=48°34′ N.; λ=109°40′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	27.24	27.78	26.79	28.0	26.3	31.9	32.1	25.3	23.9	28.0	28.7	37.6	20.1	28.8	48	−12	21	20	22	24	22	75	76	67	70	72
February	27.35	27.80	26.86	7.5	6.4	15.3	15.0	6.0	5.1	13.0	12.9	21.9	−1.1	10.4	48	−40	1	1	8	8	4	75	80	72	72	75
March	27.36	27.86	27.02	26.5	23.9	36.8	40.0	23.2	21.7	30.5	32.2	45.1	18.2	31.6	76	−13	18	18	22	22	20	72	80	57	52	65
April	27.37	27.97	27.01	42.7	35.9	54.0	57.4	36.6	32.3	41.4	42.7	61.0	32.6	46.8	95	16	29	27	28	25	27	60	72	39	31	50
May	27.29	27.70	26.90	54.2	48.2	65.1	69.1	45.6	42.8	50.4	51.4	72.3	46.0	59.2	91	32	37	37	37	34	36	55	66	39	31	48
June	27.29	27.64	26.94	53.5	49.5	63.2	65.2	49.4	46.9	52.7	53.6	68.9	48.0	58.4	90	43	46	44	44	45	45	77	84	54	51	66
July	27.31	27.62	27.04	67.4	59.5	80.6	84.3	56.3	53.0	61.1	61.4	88.1	57.9	73.0	103	50	48	48	48	46	48	53	67	35	29	46
August	27.36	27.75	27.07	64.0	54.0	77.0	82.2	51.2	46.9	56.9	58.3	85.6	52.1	68.8	98	39	40	40	42	40	40	44	62	31	25	40
September	27.34	27.88	26.88	53.7	48.1	65.6	70.0	46.1	43.1	51.9	52.9	73.6	44.9	59.2	90	33	38	38	40	38	38	59	70	44	36	52
October	27.34	27.80	26.83	40.5	36.5	49.1	50.5	35.6	33.1	40.4	41.1	56.5	30.7	43.6	77	4	30	29	31	30	30	67	75	52	50	61
November	27.43	27.71	26.80	34.3	31.8	46.2	46.3	30.0	28.2	37.4	37.5	55.1	26.4	40.8	67	12	24	23	26	26	25	65	69	46	46	56
December	27.32	27.64	26.68	30.7	29.4	34.1	34.1	25.9	25.2	28.4	27.7	42.8	21.5	32.2	71	−17	18	19	20	18	19	62	66	62	58	62
Year	27.33	27.97	26.68	41.9	37.5	51.6	53.8	35.9	33.5	41.0	41.7	59.0	33.1	46.1	103	−40	29	29	31	30	30	64	72	50	46	58

HELENA, MONT.

[ϕ=46°35′ N.; λ=112°02′ W.]

						(1)				(1)									(1)				(1)			
January	25.72	26.23	25.32		29.9	34.3	34.1		25.5	28.5	28.5	38.0	25.2	31.6	59	7		18	20	20	19		62	53	56	57
February	25.72	26.14	25.25		15.8	21.0	23.1		13.4	17.2	18.4	27.7	10.4	19.0	48	−30		8	9	9	9		70	59	52	60
March	25.78	26.09	25.40		28.2	40.3	43.3		24.5	32.3	33.7	45.4	23.9	34.6	67	−6		19	22	21	21		67	49	44	53
April	25.81	26.35	25.49		39.2	51.5	54.6		33.3	39.7	41.1	57.7	34.7	46.2	82	12		26	26	26	26		58	39	36	44
May	25.76	26.10	25.46		47.0	62.0	65.1		40.8	47.9	48.9	67.3	44.6	56.0	84	34		34	35	34	34		63	39	34	45
June	25.76	26.01	25.34		47.8	60.3	63.2		42.7	48.7	49.6	66.1	45.1	55.6	85	35		38	39	38	38		70	48	43	54
July	25.83	26.10	25.55		59.2	75.8	79.6		49.7	57.3	58.0	83.5	57.0	70.2	95	46		42	45	42	43		54	34	30	39
August	25.86	26.15	25.65		56.0	71.5	79.8		46.2	53.7	55.8	82.2	53.5	67.8	93	39		37	40	37	38		51	35	24	37
September	25.83	26.25	25.43		48.7	59.6	68.0		42.4	47.7	50.7	70.6	44.3	57.4	85	31		36	37	36	36		65	46	35	49
October	25.83	26.24	25.35		41.6	47.3	51.7		36.2	39.4	41.3	56.4	37.0	46.7	72	12		30	31	30	30		65	55	48	56
November	25.94	26.16	25.40		32.1	39.0	44.1		27.9	32.6	35.9	49.7	28.7	39.2	64	23		22	24	25	24		64	55	47	55
December	25.81	26.14	25.23		31.1	34.3	36.5		26.9	28.9	30.0	41.5	25.8	33.6	63	1		21	22	21	21		66	62	57	62
Year	25.80	26.35	25.23		39.7	49.7	53.6		34.1	39.5	41.0	57.2	35.8	46.5	95	−30		28	29	28	28		63	48	42	51

HONOLULU, T. H.

[ϕ=21°19′ N.; λ=157°52′ W.]

					(2)		(2)		(2)		(2)							(2)		(3)			(2)		(2)	
January	29.98	30.17	29.83		72.2		72.4		66.4		66.8	76.9	68.5	72.7	80	65		63		64	64		74		78	76
February	29.98	30.13	29.74		71.9		72.1		66.2		67.1	77.6	68.6	73.1	80	64		63		64	64		74		78	76
March	29.97	30.15	29.79		72.4		71.5		66.1		66.1	77.3	68.0	72.6	80	64		63		63	63		72		75	74
April	30.00	30.13	29.80		72.4		71.6		66.8		66.6	76.5	68.1	72.3	80	65		64		64	64		75		77	76
May	30.00	30.11	29.84		74.2		73.3		68.0		67.9	78.2	70.4	74.3	81	65		65		65	65		73		76	74
June	30.00	30.09	29.91		74.8		74.5		68.5		68.0	79.8	71.1	75.4	82	69		65		65	65		73		72	72
July	30.00	30.10	29.91		76.5		75.6		69.4		69.5	81.3	72.5	76.9	83	69		66		66	66		70		74	72
August	29.93	30.05	29.83		77.3		76.5		70.2		70.0	81.9	73.5	77.7	84	70		67		67	67		70		73	72
September	29.92	30.02	29.82		77.3		75.8		69.8		69.8	81.8	72.2	77.0	85	69		66		67	66		69		74	72
October	29.94	30.03	29.78		76.2		75.8		70.0		69.6	80.6	72.5	76.6	84	69		67		66	67		74		74	74
November	29.97	30.10	29.81		73.3		73.5		67.5		67.0	77.6	70.5	74.0	81	68		64		64	64		75		72	73
December	29.96	30.09	29.72		72.0		72.4		66.6		67.2	77.6	68.6	73.1	81	64		64		64	64		75		77	76
Year	29.97	30.17	29.72		74.2		73.8		68.0		68.0	78.9	70.4	74.6	85	64		65		65	65		73		75	74

HOUSTON, TEX.

Airport [ϕ=29°39′ N.; λ=95°17′ W.] City [ϕ=29°47′ N.; λ=95°24′ W.]

	(3 4)	(3 4)	(3 4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	29.94	30.46	29.45		52.9	61.2			50.3	53.7		65.1	49.1	57.1	78	34		47	46				83	61		
February	29.88	30.48	29.40		51.6	62.0			48.8	54.2		66.9	46.8	56.8	79	31		45	46				80	60		
March	29.93	30.30	29.57		57.9	69.8			55.1	59.2		73.2	56.0	64.6	88	39		52	50				83	54		
April	29.84	30.20	29.45		61.6	74.5			58.5	62.0		78.0	59.4	68.7	89	42		56	53				82	49		
May	29.78	29.98	29.45		69.1	82.4			66.7	69.8		86.1	67.4	76.8	92	58		65	63				88	54		
June	29.79	29.98	29.57		75.8	86.9			73.2	74.4		89.6	73.9	81.8	95	66		72	69				89	56		
July	29.83	29.98	29.56	76.0	74.1	88.1	86.4	74.4	73.2	75.7	76.2	92.2	75.5	83.8	104	72	74	73	71	72	72	93	96	58	64	78
August	29.81	29.96	29.63	75.1	73.1	88.4	86.1	73.6	72.4	75.5	75.9	92.5	75.0	83.8	98	71	73	72	70	72	72	93	97	56	63	77
September	29.83	29.99	29.62	72.1	69.6	87.3	81.9	70.1	68.5	73.1	72.6	90.7	71.4	81.0	98	59	69	68	66	68	68	91	94	51	65	75
October	29.91	30.15	29.71	65.1	62.2	78.6	72.4	62.0	59.8	65.8	64.6	82.0	62.9	72.4	90	44	60	58	57	59	58	84	86	50	66	71
November	30.07	30.46	29.81	53.0	50.0	64.4	59.2	50.0	48.2	54.9	53.8	67.2	50.4	58.8	81	36	47	46	46	49	47	81	87	55	70	73
December	29.93	30.26	29.56	52.6	48.6	64.9	59.1	50.3	47.1	54.5	53.2	68.1	50.0	59.0	83	29	48	45	45	47	46	84	89	52	67	73
Year	29.88	30.48	29.40		62.2	75.7			60.2	64.4		79.3	61.5	70.4	104	29		58	57				88	55		

[1] Local noon January to June, inclusive.
[2] 8:00 a. m. and p. m., 157°30′ meridian time.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 138 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

HAVRE, MONT.

[H=2,488 ft.; H_b=2,507 ft.; H_t=11 ft.; H_r=3 ft.; H_a=67 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.30	0.16	3.0	6.9	10.1	SW.	29	SW.	0	3	13	15	5	2	12	4	0	0	0	0	0	7	0	0	27	1	0
February	.53	.19	9.0	6.2	8.9	E.	28	SW.	0	7	10	11	9	5	17	9	0	1	2	1	1	16	0	0	27	14	0
March	.24	.09	4.2	5.0	9.8	E.	32	SW.	1	12	9	10	7	2	10	6	0	0	1	0	1	9	0	0	23	3	0
April	.36	.13	1.7	5.7	9.7	NW.	32	NW.	2	9	9	12	6	4	2	2	0	0	0	0	0	1	1	1	13	0	1
May	1.28	.77	.0	4.9	10.0	W.	35	W.	2	9	15	7	10	6	0	0	0	1	1	0	0	0	1	0	1	0	4
June	3.60	.62	.0	6.6	8.7	W.	33	W.	1	4	13	13	18	18	6	0	0	0	0	0	0	0	1	0	0	0	8
July	.21	.10	.0	3.4	8.5	SW.	41	SW.	2	17	11	3	4	3	0	0	0	0	0	0	0	0	16	9	0	0	4
August	.58	.22	.0	3.1	7.4	SW.	30	S.	0	19	9	3	5	5	0	0	0	0	0	0	0	0	15	4	0	0	4
September	.90	.30	T	4.1	7.8	W.	26	W.	0	15	9	6	8	6	1	0	0	0	0	0	0	0	1	0	0	0	1
October	.37	.21	2.3	5.2	10.0	SW.	43	SW.	3	13	9	9	4	4	3	2	0	1	1	0	0	3	0	0	16	0	0
November	.18	.11	.0	4.5	9.8	SW.	39	W.	4	13	9	8	3	2	0	0	0	1	1	1	1	0	0	0	25	0	0
December	.99	.62	8.1	5.9	10.4	SW.	38	SW.	4	9	9	13	6	5	6	4	0	0	0	0	0	7	0	0	24	6	0
Year	9.54	.77	28.3	5.1	9.3	SW.	43	SW.	19	130	125	110	85	62	51	27	0	4	6	2	3	43	35	14	156	24	22

HELENA, MONT.

[H=4,090 ft.; H_b=4,124 ft.; H_t=85 ft.; H_r=78 ft.; H_a=111 ft.]

January	0.20	0.07	4.5	7.6	8.5	SW.	31	SW.	0	5	5	21	8	1	22	8	0	0	0	0	0	5	0	0	27	0	0
February	.70	.22	13.1	8.1	7.4	NW.	37	W.	2	2	3	23	11	4	20	11	0	1	0	0	0	13	0	0	27	5	0
March	.47	.24	9.7	6.6	7.5	SW.	34	SW.	2	7	5	19	8	3	13	7	0	1	0	0	1	4	0	0	22	2	0
April	.56	.27	.3	7.7	9.0	SW.	35	N.	1	3	5	22	6	4	8	3	0	0	0	0	0	0	0	0	10	0	1
May	1.59	.59	T	6.0	9.0	SW.	39	SW.	2	8	10	13	9	8	1	0	3	0	0	0	0	0	0	0	0	0	7
June	2.63	.80	T	7.9	8.1	SW.	30	SW.	0	2	10	18	14	13	1	0	4	0	0	0	0	0	0	0	0	0	9
July	.44	.20	.0	4.2	8.2	SW.	32	W.	2	14	10	7	6	5	0	0	1	0	0	0	0	0	7	0	0	0	11
August	.48	.37	.0	3.8	8.0	SW.	30	SW.	0	17	8	6	5	4	0	0	0	0	0	0	0	0	4	0	0	0	5
September	.89	.30	.7	4.6	8.0	SW.	25	W.	0	15	6	9	5	5	2	2	0	0	0	0	0	0	0	0	1	0	2
October	1.24	.66	4.5	7.3	7.9	SW.	29	SW.	0	3	11	17	8	4	7	5	0	1	1	0	0	1	0	0	6	0	0
November	.05	.03	T	5.5	5.8	SW.	32	NW.	1	11	4	15	3	0	1	0	0	1	0	1	0	0	0	0	23	0	0
December	.34	.10	2.7	8.3	6.7	SW.	31	W.	0	3	3	25	8	4	13	5	0	0	0	0	0	8	0	0	18	0	0
Year	9.59	.80	35.5	6.5	7.9	SW.	39	SW.	10	90	80	195	91	55	88	41	8	4	1	1	1	31	11	0	134	7	35

HONOLULU, T. H.

[H=12 ft.; H_b=38 ft.; H_t=86 ft.; H_r=68 ft.; H_a=100 ft.]

January	2.77	0.77	0.0	5.7	10.2	E	36	E.	2	5	19	7	19	13	0	0	0	0	0	0	0	0	0	0	0	0	0
February	3.60	1.41	.0	6.0	8.6	E.	23	E.	0	4	14	10	13	10	0	0	0	0	0	0	0	0	0	0	0	0	8
March	1.88	.68	.0	5.4	9.6	E.	27	E.	0	8	15	8	12	6	0	0	0	0	0	0	0	0	0	0	0	0	5
April	6.29	3.59	.0	6.1	9.9	E.	28	E.	0	5	13	12	16	10	0	0	0	0	0	0	0	0	0	0	0	0	3
May	1.46	.94	.0	5.8	10.2	E.	25	NE.	0	6	16	9	13	4	0	0	0	1	0	0	0	0	0	0	0	0	0
June	1.33	.28	.0	6.3	9.5	E.	23	NE.	0	3	19	8	23	9	0	0	0	0	0	0	0	0	0	0	0	0	0
July	1.32	.45	.0	5.2	9.9	E.	22	NE.	0	8	18	5	15	8	0	0	0	0	0	0	0	0	0	0	0	0	0
August	.53	.19	.0	6.1	10.3	E.	22	NE.	0	2	20	9	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0
September	3.78	3.24	.0	4.9	8.6	E.	23	E.	0	5	23	2	12	5	0	0	0	0	0	0	0	0	0	0	0	0	1
October	10.31	7.06	.0	7.0	9.0	E.	22	E.	0	2	15	14	20	9	0	0	0	0	0	0	0	0	0	0	0	0	1
November	4.41	1.35	.0	6.3	10.1	E.	26	E.	0	4	16	10	23	13	0	0	0	0	0	0	0	0	0	0	0	0	0
December	.55	.24	.0	5.4	8.4	E.	30	SW.	0	8	18	5	12	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	38.23	7.06	.0	5.8	9.5	E.	36	E.	2	60	206	99	191	96	0	0	0	1	0	0	0	0	0	0	0	0	13

HOUSTON, TEX.

Airport [H=49 ft.; H_b=62 ft.; H_t=30 ft.; H_r=25 ft.; H_a=37 ft.] City [H=41 ft.; H_b=159 ft.; H_t=157 ft.; H_r=149 ft.; H_a=190 ft.]

January	4.89	1.66	0.0	6.2	10.6	SE.	30	NW.	0	10	6	15	13	12	0	0	0	16	1	0	5	0	0	0	0	0	5
February	4.08	1.24	.0	6.5	12.6	SE.	34	SE.	1	5	10	13	16	10	0	0	1	13	2	0	1	0	0	0	2	0	4
March	.63	.20	.0	6.1	11.4	SE.	30	S.	0	10	6	15	10	7	0	0	0	11	1	1	0	0	0	0	0	0	2
April	1.25	.49	.0	4.8	12.0	SE	29	SE.	0	11	9	10	4	4	0	0	0	12	0	0	1	0	0	0	0	0	2
May	3.12	1.05	.0	5.8	9.2	SE.	43	NW.	1	6	18	7	9	9	0	0	1	3	0	0	0	0	3	0	0	0	8
June	3.17	1.36	.0	5.5	10.1	SE.	29	SE.	0	5	16	9	8	7	0	0	0	2	0	0	0	0	16	0	0	0	7
July	9.39	6.92	.0	4.5	9.5	S.	40	NE.	1	13	12	6	5	4	0	0	0	5	0	0	0	0	24	8	0	0	8
August	.52	.33	.0	5.4	8.0	S.	25	S.	0	7	19	5	4	3	0	0	0	16	0	0	0	0	24	8	0	0	8
September	2.30	.88	.0	4.2	8.9	S.	29	W.	0	12	14	4	10	7	0	0	0	6	0	0	0	0	22	4	0	0	7
October	1.64	1.10	.0	4.6	10.2	SE.	35	SE.	1	10	14	7	7	5	0	0	0	11	5	1	2	0	1	0	0	0	2
November	3.16	1.59	.0	6.4	9.7	N.	24	SE.	0	7	8	15	8	7	0	0	0	6	0	0	0	0	0	0	0	0	0
December	2.62	1.94	.0	4.5	9.6	S.	25	W.	0	11	13	7	6	4	0	0	0	13	7	2	2	0	0	0	1	0	2
Year	36.77	6.92	.0	5.4	10.1	SE.	43	NW.	4	107	145	113	100	79	0	0	2	114	16	4	11	0	90	20	3	0	55

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

HURON, S. DAK.

Airport [ϕ=44°21′ N.; λ=98° 14′W.] City [ϕ=44°21′N.; λ=98°14′W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	■ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	■ (1)	○	○	○	○	○	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	28.53	29.03	28.08	----	19.7	----	26.6	----	18.5	----	24.3	33.5	13.7	23.6	55	−9	----	16	----	20	18	----	82	----	75	79
February	28.63	29.19	27.86	----	4.6	----	12.3	----	3.7	----	10.5	18.6	−1.9	8.4	46	−24	----	0	----	4	2	----	78	----	68	73
March	28.64	29.04	28.16	28.0	23.6	39.2	40.1	26.1	22.4	32.7	33.2	45.0	20.6	32.8	82	2	23	20	24	24	23	82	85	56	56	70
April	28.56	29.03	27.98	39.4	34.4	53 7	55.0	35.3	31.9	42.1	43.2	59.1	31.7	45.4	87	12	29	28	28	28	28	66	77	38	39	55
May	28.48	28.95	28.12	59.4	54.5	73.8	74.4	51.9	49.5	58.1	58.4	78.9	51.3	65.1	97	31	45	45	45	45	45	61	71	40	40	53
June	28.47	28.84	28.04	62.9	60.2	74.6	76.3	58.8	57.3	62.6	62.9	79.8	56.8	68.3	95	45	56	55	55	54	55	80	84	53	50	67
July	28.54	28.80	28.23	70.2	66.7	85.2	88.5	63.8	62.4	68.0	68.0	91.6	63.8	77.7	106	55	60	60	58	56	58	72	80	43	36	58
August	28.56	28.79	28.33	67.5	60.4	82.0	83.2	58.7	56.1	64.4	63.3	87.6	58.7	73.2	98	44	52	53	53	50	52	60	77	39	34	52
September	28.57	29.14	28.12	60.4	53.4	73.2	75.2	51.4	48.2	57.0	57.1	81.4	50.2	65.8	102	23	44	44	44	43	44	58	72	39	36	51
October	28.57	29.11	28.19	42.7	39.1	54.8	52.8	38.0	35.5	44.2	43.5	60.6	34.5	47.6	87	13	32	31	32	33	32	69	74	45	50	60
November	28.80	29.32	28.23	31.4	26.8	45.5	42.4	27.7	24.5	36.9	34.8	52.1	23.3	37.7	71	16	21	20	24	23	22	65	75	44	47	58
December	28.60	29.02	28.15	27.2	23.0	34.9	32.0	27.2	21.0	29.4	32.0	41.4	18.3	29.8	71	−10	19	17	21	20	19	73	78	62	64	69
Year	28.59	29.33	27.86	----	38.9	----	54.9	----	35.9	----	44.3	60.8	35.1	48.0	106	−24	----	32	----	33	33	----	78	----	50	62

INDIANAPOLIS, IND.

Airport [ϕ=39°44′ N.; λ=86°16′ W.] City [ϕ=39°46′ N.; λ=86°10′ W.]

	(3 4)	(3 4)	(3 4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	29.12	29.52	28.44	----	33.5	----	36.8	----	31.2	----	33.4	42.1	29.7	35.9	60	15	----	28	----	28	28	----	79	----	71	75
February	29.18	29.65	28.60	----	29.2	----	33.9	----	27.0	----	29.6	42.2	24.1	33.2	67	10	----	23	----	22	22	----	75	----	61	68
March	29.17	29.60	28.48	----	36.7	----	47.8	----	33.6	----	39.9	53.7	34.0	43.8	83	17	----	29	----	29	29	----	73	----	51	62
April	29.08	29.66	28.64	----	44.1	----	53.2	----	40.3	----	45.0	58.3	40.9	49.6	81	23	----	36	----	35	35	----	72	----	54	63
May	29.10	29.44	28.58	----	59.2	----	72.7	----	53.2	----	59.0	77.2	56.5	66.8	92	37	----	48	----	48	48	----	67	----	44	56
June	29.09	29.41	28.72	----	69.7	----	78.7	----	65.2	----	67.6	83.1	66.4	74.8	91	52	----	63	----	62	62	----	79	----	58	69
July	29.10	29.38	28.90	68.3	67.6	82.3	78.8	65.1	65.1	69.9	68.9	85.8	66.6	76.2	98	56	63	64	64	64	64	85	88	55	62	72
August	29.10	29.36	28.84	67.0	64.5	81.3	77.4	64.1	62.5	68.4	68.1	84.2	65.1	74.6	90	57	63	61	62	63	62	86	90	53	63	73
September	29.14	29.48	28.86	63.6	60.1	82.5	74.2	58.0	56.6	64.5	62.1	84.8	59.9	72.4	100	42	54	54	53	54	54	72	81	38	52	61
October	29.16	29.57	28.78	51.4	47.0	65.7	58.4	47.0	44.6	53.6	50.2	69.0	48.4	58.7	89	32	43	42	42	42	42	73	83	46	57	65
November	29.37	29.76	28.93	36.0	33.2	46.3	40.7	33.5	31.5	40.1	36.6	49.8	35.6	42.7	66	27	30	29	32	31	30	79	86	61	70	74
December	29.08	29.47	28.66	31.9	29.5	38.4	34.4	30.1	28.1	33.8	31.6	42.8	29.4	36.1	60	1	28	26	27	27	27	82	86	65	75	77
Year	29.14	29.76	28.44	----	47.9	----	57.2	----	44.9	----	49.3	64.4	46.4	55.4	100	1	----	42	----	42	42	----	80	----	60	68

ITHACA, N. Y.

[ϕ=42°27′ N.; λ=76°29′ W.]

January	29.07	29.47	28.39	----	23.9	----	27.2	----	----	----	----	34.0	18.9	26.4	54	−2	----	20	----	22	21	----	86	----	82	84
February	29.13	29.70	28.48	----	25.3	----	30.6	----	----	----	----	37.2	20.5	28.8	55	1	----	20	----	24	22	----	80	----	78	79
March	29.13	29.65	28.53	----	28.1	----	33.1	----	----	----	----	41.0	23.3	32.2	75	8	----	23	----	26	25	----	82	----	74	78
April	29.01	29.42	28.61	----	39.7	----	44.5	----	----	----	----	52.3	34.7	43.5	81	20	----	33	----	34	34	----	78	----	68	73
May	29.07	29.39	28.47	----	56.2	----	63.3	----	----	----	----	73.5	48.1	60.8	89	31	----	46	----	45	45	----	69	----	54	61
June	29.08	29.33	28.71	----	63.7	----	69.7	----	----	----	----	78.2	55.9	67.0	92	41	----	55	----	55	55	----	73	----	62	68
July	29.07	29.36	28.73	----	67.0	81.1	75.3	----	61.5	65.4	63.8	84.2	59.5	71.8	97	47	----	59	56	57	58	----	73	44	54	64
August	29.09	29.38	28.83	----	67.1	83.7	76.0	----	63.2	67.3	65.7	86.4	60.8	73.6	94	53	----	61	58	60	60	----	81	43	58	70
September	29.14	29.62	28.75	----	57.6	72.4	64.7	----	54.5	59.9	57.4	76.1	52.7	64.4	98	35	----	52	52	52	52	----	83	52	66	74
October	29.12	29.56	28.56	----	46.3	57.4	51.0	----	43.9	49.3	46.4	61.0	41.5	51.2	87	27	----	41	42	42	42	----	83	58	72	77
November	29.28	29.66	28.88	----	31.9	43.0	36.9	----	29.4	36.3	32.9	44.8	28.8	36.8	66	19	----	25	27	27	26	----	76	54	67	72
December	28.94	29.52	28.46	----	28.3	33.8	31.1	----	26.4	30.5	28.7	36.6	23.9	30.2	57	−3	----	23	25	24	24	----	81	70	76	78
Year	29.10	29.70	28.39	----	44.6	----	50.3	----	----	----	----	58.8	39.0	48.9	98	−3	----	38	----	39	39	----	79	----	68	73

JACKSONVILLE, FLA.

[ϕ=30°20′ N.; λ=81°39′ W.]

January	30.09	30.36	29.68	----	50.1	----	60.3	----	48.1	----	53.6	68.4	48.3	58.4	80	37	----	46	----	47	46	----	86	----	64	75
February	30.10	30.42	29.74	----	57.7	----	64.7	----	55.7	----	59.1	74.0	54.6	64.3	84	29	----	54	----	55	54	----	87	----	72	79
March	30.08	30.42	29.72	----	57.9	----	66.7	----	55.2	----	59.0	76.4	56.0	66.2	85	42	----	53	----	53	53	----	84	----	65	74
April	30.00	30.40	29.69	----	62.8	----	70.0	----	59.5	----	61.8	78.9	59.7	69.3	87	47	----	57	----	56	56	----	82	----	63	72
May	29.98	30.19	29.80	----	70.5	----	74.4	----	66.2	----	67.4	83.6	66.7	75.2	91	55	----	64	----	64	64	----	80	----	70	75
June	29.98	30.13	29.78	----	77.2	----	80.4	----	73.4	----	74.5	90.2	73.5	81.8	97	70	----	72	----	72	72	----	84	----	77	80
July	29.98	30.15	29.78	----	77.7	----	80.3	----	74.3	----	74.4	91.1	73.3	82.2	95	70	----	73	----	72	72	----	85	----	77	81
August	29.96	30.14	29.79	----	75.5	----	79.3	----	73.1	----	73.8	89.5	72.2	80.8	94	68	----	72	----	72	72	----	89	----	78	84
September	29.96	30.13	29.78	----	74.9	----	80.3	----	72.9	----	74.0	88.7	72.9	80.8	96	69	----	72	----	71	72	----	91	----	75	83
October	30.00	30.20	29.73	----	65.7	----	72.3	----	63.8	----	67.4	80.4	63.3	71.8	88	48	----	63	----	65	64	----	90	----	78	84
November	30.13	30.42	29.78	----	52.1	----	60.8	----	50.1	----	56.2	70.0	50.6	60.3	80	37	----	48	----	52	50	----	87	----	74	81
December	30.02	30.35	29.59	----	49.2	----	58.6	----	47.5	----	51.7	67.3	46.2	56.8	77	33	----	46	----	46	46	----	88	----	64	76
Year	30.02	30.42	29.59	----	64.3	----	70.7	----	61.6	----	64.4	79.9	61.4	70.7	97	29	----	60	----	60	60	----	86	----	71	79

[1] Airport data beginning with March.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,301 feet.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 823 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

HURON, S. DAK.

Airport [H=1,282 ft.; H_b=1,289 ft.; H_t=26 ft.; H_r=4 ft.; H_a=41 ft.] City [H=1, 282 ft.; H_b=1,301 ft.; H_t=59 ft.: H_r=53 ft.; H_a=74 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	1.33	1.01	6.9	6.1	8.7	SE.	28	NW.	0	8	13	10	9	5	15	8	0	7	6	0	5	13	0	0	31	6	0
February	.55	.50	10.0	4.9	11.0	NW.	32	NW.	1	8	15	5	6	2	18	6	0	4	0	0	0	23	0	0	28	17	0
March	.12	.07	.9	5.0	12 4	NW.	35	N.	4	12	11	8	3	1	7	3	0	4	0	0	0	8	0	0	27	0	0
April	.47	.45	T	4.8	15.4	NW.	45	NW.	9	12	10	8	3	2	4	0	0	3	0	0	0	1	0	0	15	0	1
May	3.66	1.11	.0	3.9	14.6	S.	63	NE.	6	14	12	5	10	8	0	0	0	3	0	0	0	0	3	1	1	0	9
June	3.60	1.07	.0	5.2	13.3	NW.	52	NW.	11	11	10	9	13	10	0	0	0	3	1	1	1	0	5	2	0	0	11
July	1.60	.54	.0	3.0	11.9	SE.	36	SE.	4	17	13	1	11	9	0	0	0	6	1	1	1	0	19	10	0	0	15
August	.99	.65	.0	3.8	12.5	SE.	34	NW.	2	15	13	3	6	5	0	0	0	3	0	0	0	0	15	3	0	0	3
September	.51	.43	T	3.6	12.9	S.	49	S.	5	16	7	7	4	1	1	0	0	4	1	1	1	0	11	7	4	0	4
October	.81	.56	T	5.0	14.5	NW.	40	W.	7	15	7	9	8	5	2	0	1	6	0	0	0	0	0	0	11	0	2
November	T	T	T	3.2	11.4	SE.	37	SE.	4	20	3	7	0	0	1	0	0	4	0	0	0	1	0	0	28	0	0
December	.15	.08	1.8	5.4	11.4	NW.	50	NW.	7	10	12	9	5	1	12	4	0	6	1	0	0	11	0	0	29	3	0
Year	13.79	1.11	19.6	4.5	12.5	SE.	63	NE.	60	158	126	81	78	49	60	21	1	53	10	3	8	57	53	23	174	26	45

INDIANAPOLIS, IND.

Airport [H=793 ft.; H_b=808 ft.; H_t=5 ft.; H_r=3 ft.; H_a=52 ft.] City [H=718 ft.; H_b=823 ft.; H_t=98 ft.; H_r=96 ft.; H_a=129 ft.]

January	5.33	1.84	7.2	8.5	8.9	S.	31	NW.	0	1	7	23	13	11	17	10	0	3	0	0	0	4	0	0	19	0	0
February	2.97	.89	8.6	7.0	9.7	SW.	33	W.	1	4	10	14	14	11	11	5	0	1	0	0	0	7	0	0	24	0	1
March	3.03	2.13	.1	5.6	9.6	W.	30	NW.	0	9	9	13	8	7	7	1	0	2	2	1	0	2	0	0	17	0	2
April	5.74	1.52	T	6.6	9.6	W.	27	NW.	0	7	6	17	16	10	5	0	0	0	0	0	0	0	0	0	5	0	5
May	.88	.28	.0	5.1	7.5	SW.	23	NW.	0	8	15	8	5	4	0	0	0	1	1	1	1	0	3	0	0	0	5
June	5.67	1.75	.0	6.1	7.3	SW.	36	NW.	1	6	12	12	14	12	0	0	0	0	0	0	0	0	4	0	0	0	11
July	7.20	2.51	.0	5.9	6.5	SW.	29	NW.	0	9	9	13	12	9	0	0	1	1	0	0	0	0	6	1	0	0	11
August	2.91	1.65	.0	4.3	6.5	NE.	22	SW.	0	12	14	5	7	7	0	0	0	1	0	0	0	0	0	0	0	0	6
September	1.17	.77	.0	3.5	7.4	SW.	30	N.	0	17	9	4	3	3	0	0	0	0	0	0	0	0	10	7	0	0	4
October	2.93	1.51	.0	4.1	8.3	SW.	25	NW.	0	15	7	9	7	6	0	0	0	1	2	2	2	0	0	0	0	0	3
November	1.15	.55	.3	6.2	7.3	SW.	20	NE.	0	7	9	14	8	4	3	1	0	1	0	0	0	0	0	0	10	0	0
December	1.13	.58	5.5	6.7	9.1	W.	25	NW.	0	6	10	15	6	4	11	3	0	1	1	0	0	6	0	0	20	0	0
Year	40.11	2.51	21.7	5.8	8.1	SW.	36	NW.	2	101	117	147	113	88	54	20	1	12	6	4	3	19	23	8	95	0	48

ITHACA, N. Y.

[H=873 ft.; H_b=836 ft.; H_t=77 ft.; H_r=76 ft.; H_a=100 ft.]

January	2.82	1.24	27.5	8.7	9.4	NW.	37	SE.	4	1	3	27	16	12	23	14	0	4	0	0	0	16	0	0	28	2	0
February	3.21	1.31	8.1	8.1	11.2	NW.	42	SE.	3	3	6	19	11	10	14	6	0	5	1	0	1	7	0	0	25	0	0
March	2.82	.77	9.6	7.7	10.6	NW.	29	NW.	0	1	11	19	19	9	19	10	0	5	2	0	1	9	0	0	25	0	1
April	2.51	.61	4.2	7.8	10.3	NW.	33	S.	1	2	7	21	20	14	12	8	0	8	4	2	0	1	0	0	13	0	2
May	1.84	.87	.0	5.7	7.7	NW.	25	S.	0	9	10	12	9	6	0	0	0	4	1	0	0	0	0	0	1	0	5
June	2.41	.82	.0	6.1	8.4	NW.	23	S.	0	7	11	12	14	9	0	0	0	4	1	0	0	0	1	0	0	0	6
July	3.17	2.30	.0	5.5	7.6	NW.	22	S.	0	6	17	8	10	5	0	0	0	1	0	0	0	0	6	1	0	0	9
August	1.46	1.28	.0	5.0	6.6	NW.	26	SE.	0	7	21	3	6	4	0	0	0	5	4	0	0	0	5	0	0	0	5
September	2.86	.82	.0	6.0	8.1	NW.	31	NW.	0	5	16	9	15	12	0	0	0	8	0	0	0	0	3	2	0	0	8
October	2.49	.55	T	6.5	9.3	NW.	29	NW.	0	5	14	12	16	16	5	0	0	4	0	0	0	0	0	0	6	0	5
November	.55	.45	4.0	6.5	8.4	NW.	29	W.	0	6	8	16	6	2	8	4	0	1	0	0	0	0	0	0	20	0	0
December	2.76	1.10	5.2	8.6	11.1	NW.	33	NW.	2	2	4	25	14	9	16	9	0	2	0	0	1	9	0	0	25	1	0
Year	28.90	2.30	58.6	6.8	9.0	NW.	42	SE.	10	54	128	183	156	108	97	51	0	51	13	2	3	42	15	3	143	3	41

JACKSONVILLE, FLA.

[H=18 ft.; H_b=43 ft.: H_t=86 ft.; H_r=78 ft. H_a=110 ft.]

January	1.76	1.03	0.0	4.5	7.9	S.	27	SW.	0	10	14	7	5	3	0	0	0	6	4	4	4	0	0	0	0	0	2
February	2.49	1.08	.0	6.5	9.0	S.	33	SW.	1	5	9	14	10	6	0	0	0	4	2	2	1	0	0	0	2	0	2
March	1.43	.50	.0	4.5	8.2	SW.	32	W.	1	13	12	6	8	7	0	0	0	5	2	1	1	0	0	0	0	0	6
April	4.62	2.65	.0	5.6	8.6	SW.	30	SW.	0	7	15	8	9	8	0	0	0	0	0	0	0	0	0	0	0	0	6
May	4.34	2.20	.0	5.8	7.5	SE.	26	SW.	0	9	11	11	8	6	0	0	1	0	0	0	0	0	3	0	0	0	10
June	4.82	2.33	.0	6.3	6.7	S.	24	NW.	0	3	18	9	16	10	0	0	0	0	0	0	0	0	17	4	0	0	18
July	7.71	1.80	.0	5.7	6.7	SW.	29	W.	0	5	22	4	17	16	0	0	0	1	1	1	1	0	23	1	0	0	22
August	5.97	1.16	0	6 2	6.8	S.	26	SW.	0	3	21	7	14	13	0	0	0	2	0	0	0	0	17	0	0	0	15
September	5.89	2.14	.0	5.7	7.2	S.	22	NE.	0	8	13	9	14	11	0	0	0	1	0	0	0	0	15	5	0	0	10
October	4.06	2.13	.0	5.6	7.4	NE.	26	NE.	0	11	7	13	5	5	0	0	0	4	4	4	4	0	0	0	0	0	0
November	2.05	1.94	.0	5.1	7.5	NE.	21	NE.	0	12	7	11	4	3	0	0	0	1	1	1	0	0	0	0	0	0	1
December	2.13	.74	.0	4.1	7.9	W.	22	W.	0	15	8	8	7	7	0	0	0	5	3	3	3	0	0	0	0	0	1
Year	47.27	2.65	.0	5.5	7.6	S.	33	SW.	2	101	157	107	117	95	0	0	1	29	17	16	14	0	72	10	2	0	93

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KALISPELL, MONT.

[ϕ=48°10′ N.; λ=114°25′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	26.90	27.47	26.43	29.2	28.4	31.0	33.3	27.4	27.0	29.3	30.7	36.3	24.0	30.2	53	7	25	25	26	27	26	84	85	81	78	82
February	26.91	27.37	26.34	20.0	17.4	22.2	25.4	18.4	16.3	20.1	22.6	28.9	13.6	21.2	43	−23	14	13	16	17	15	77	82	75	70	76
March	26.92	27.29	26.60	33.3	28.1	37.7	43.4	30.2	26.2	33.1	36.7	45.3	24.6	35.0	66	4	26	24	27	28	26	76	83	66	59	71
April	26.97	27.46	26.64	43.7	37.5	51.2	55.5	38.1	34.5	42.0	43.9	58.1	35.0	46.6	82	22	32	30	32	30	31	64	75	49	41	57
May	26.90	27.23	26.63	52.0	43.9	60.6	65.2	46.0	40.4	50.2	51.8	67.2	42.2	54.7	85	31	40	37	40	40	39	65	77	52	43	59
June	29.90	27.10	26.50	52.8	45.8	59.1	62.5	48.1	43.7	51.0	51.8	65.2	44.3	54.8	90	35	44	42	44	43	43	75	86	60	53	68
July	26.94	27.25	26.69	64.3	54.1	73.3	80.5	53.7	48.7	57.5	58.6	82.3	52.3	67.3	96	42	45	44	46	42	44	52	70	40	28	48
August	26.95	27.25	26.74	63.6	52.5	72.1	80.6	50.6	45.6	55.1	57.1	82.3	49.6	66.0	92	38	39	39	42	38	40	42	61	34	23	40
September	26.95	27.34	26.53	52.7	46.6	60.4	66.0	45.4	42.1	50.0	51.9	68.9	43.4	56.2	85	32	38	38	41	40	39	60	72	51	42	56
October	26.97	27.46	26.41	34.3	39.4	49.7	53.3	39.3	36.0	42.0	43.1	57.2	35.6	46.4	72	14	32	32	34	32	32	59	76	58	47	60
November	27.10	27.34	26.56	32.6	28.9	36.5	35.4	30.7	27.9	33.3	35.4	43.3	27.4	35.4	54	19	28	26	29	31	28	83	90	76	72	80
December	26.98	27.29	26.31	31.3	28.9	32.3	34.3	29.2	27.5	30.0	31.7	37.8	25.1	31.4	52	0	26	26	27	28	27	82	87	81	78	82
Year	26.95	27.47	26.31	42.5	37.6	48.8	53.0	38.1	34.7	41.1	42.9	56.1	34.8	45.4	96	−23	32	31	34	33	32	68	79	60	53	65

KANSAS CITY, MO. (Airport)

[ϕ=39°05′ N.; λ=94°37′ W.]

	(1)	(1)	(1)																						
January	28.93	28.47	28.38	36.7	34.0	42.7	42.0	33.1	31.3	36.8	36.5	47.8	29.2	38.5	67	12	28	27	29	29	28	71	76	60	62	67
February	28.99	29.57	28.25	26.4	24.2	34.3	34.2	23.7	21.7	28.2	29.0	41.0	17.9	29.4	61	−1	18	16	17	19	18	69	68	49	55	60
March	29.00	29.45	28.23	43.0	37.9	50.8	52.6	38.5	35.0	42.8	44.1	57.2	34.6	45.9	83	12	33	31	33	35	33	69	76	55	54	64
April	28.93	29.46	28.45	50.7	47.0	58.2	59.7	45.2	43.3	48.2	48.7	63.4	44.4	53.9	85	27	39	39	38	38	38	66	75	50	47	60
May	28.89	29.29	28.56	66.1	61.5	76.0	76.7	58.8	56.5	61.8	61.7	80.4	59.8	70.1	97	42	54	52	52	51	52	66	74	46	43	57
June	28.87	29.24	28.55	71.9	69.4	80.7	81.6	66.8	65.9	69.0	69.0	85.5	66.6	76.0	96	57	64	64	63	63	64	78	84	57	54	68
July	28.91	29.19	28.69	79.7	75.6	90.2	91.7	71.0	68.6	72.8	73.4	95.9	73.5	84.7	105	65	67	65	65	65	66	66	71	44	44	56
August	28.92	29.11	28.62	72.8	68.4	82.8	82.5	66.4	64.7	69.5	68.8	87.6	66.5	77.0	100	55	63	63	63	61	62	73	83	53	52	65
September	28.96	29.28	28.57	72.4	65.7	83.9	83.5	61.3	58.8	64.0	63.8	89.4	64.0	76.7	107	38	54	54	51	51	52	55	69	35	34	48
October	28.96	29.54	28.59	58.7	53.5	69.1	68.1	50.0	47.4	55.0	54.1	75.1	49.1	62.1	98	28	42	41	43	42	42	56	65	41	41	51
November	29.23	29.69	28.75	41.1	37.7	50.0	48.4	37.6	35.3	42.8	42.3	52.9	34.6	43.8	72	22	33	32	34	35	34	74	81	57	62	68
December	28.97	29.34	28.67	36.9	32.6	43.4	43.0	32.8	29.9	36.4	35.9	48.5	30.3	39.4	74	7	27	26	27	26	26	69	76	54	55	64
Year	28.96	29.69	28.23	54.7	50.6	63.5	63.7	48.8	46.5	52.3	52.3	68.7	47.5	58.1	107	−1	44	42	43	43	43	68	75	50	50	61

KEOKUK, IOWA

[ϕ=40°22′ N.; λ=91°26′ W.]

January	29.32	29.78	28.74	-----	30.9	37.9	37.3	-----	28.9	33.5	33.7	43.0	27.4	35.2	65	11	----	26	27	28	27	----	79	64	70	71
February	29.39	29.94	28.68	-----	22.1	30.6	32.2	-----	20.1	26.2	27.7	37.7	18.5	28.1	60	0	----	15	17	20	17	----	72	56	60	63
March	29.39	29.83	28.84	-----	35.0	47.0	47.7	-----	32.4	39.7	41.1	52.4	32.5	42.4	83	14	----	28	31	34	31	----	75	56	61	64
April	29.30	29.85	28.75	-----	43.7	54.4	55.6	-----	40.6	45.8	47.1	59.4	41.5	50.4	83	23	----	37	36	38	37	----	78	54	56	63
May	29.28	29.70	28.88	-----	60.1	73.3	73.2	-----	55.6	60.8	61.6	77.4	57.3	67.4	92	41	----	52	52	53	52	----	75	49	53	59
June	29.26	29.63	28.82	-----	68.7	78.8	79.2	-----	65.2	68.2	68.5	82.8	65.3	74.0	93	54	----	63	63	63	63	----	83	60	59	67
July	29.30	29.59	29.04	-----	71.8	83.9	84.7	-----	67.3	71.1	72.3	88.2	69.4	78.8	99	58	----	65	65	67	66	----	80	55	56	64
August	29.31	29.59	29.05	-----	66.6	80.8	78.4	-----	63.2	68.1	67.8	84.0	64.0	74.0	93	56	----	61	61	62	61	----	83	54	59	65
September	29.34	29.69	28.94	-----	62.9	79.8	77.9	-----	57.8	63.6	63.1	84.4	61.8	73.1	100	37	----	54	53	54	54	----	75	44	44	54
October	29.35	29.91	28.98	-----	50.3	65.6	62.1	-----	45.2	52.1	50.9	70.3	46.8	58.6	94	27	----	40	39	40	40	----	69	41	48	53
November	29.62	30.08	29.14	-----	37.3	48.0	46.0	-----	34.5	40.6	39.8	50.9	35.2	43.0	70	25	----	31	31	32	31	----	77	54	60	64
December	29.34	29.74	28.96	-----	30.8	40.5	38.3	-----	28.1	34.3	33.0	44.6	27.6	36.1	68	−2	----	24	26	25	25	----	75	57	59	64
Year	29.35	30.08	28.68	-----	48.4	60.0	59.4	-----	44.9	50.3	50.6	64.6	45.6	55.1	100	−2	----	41	42	43	42	----	77	54	57	63

KEY WEST, FLA.

Airport [ϕ=24°34′ N.; λ=81°45′ W.] City [ϕ=24°33′ N.; λ=81°48′ W.]

	(2 3)	(2 3)	(2 3)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)						(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
January	30.07	30.28	29.87	-----	68.4	-----	70.5	-----	65.1	-----	65.7	77.0	66.7	71.8	83	57	----	63	----	63	63	----	84	----	77	80
February	30.07	30.27	29.93	-----	71.9	-----	74.1	-----	68.6	-----	69.4	80.2	70.5	75.4	85	57	----	67	----	67	67	----	85	----	79	82
March	30.06	30.23	29.88	-----	73.0	-----	74.6	-----	68.0	-----	68.2	81.9	71.3	76.6	86	65	----	65	----	65	65	----	78	----	72	75
April	29.99	30.21	29.84	-----	75.2	-----	76.2	-----	70.4	-----	70.5	82.6	71.2	76.9	87	65	----	68	----	68	68	----	79	----	76	77
May	29.95	30.09	29.86	-----	78.5	-----	78.9	-----	72.6	-----	72.2	84.9	74.1	79.5	89	68	----	70	----	69	70	----	75	----	72	74
June	29.98	30.12	29.83	-----	81.0	-----	81.4	-----	75.4	-----	75.3	87.2	77.4	82.3	90	73	----	73	----	73	73	----	77	----	75	76
July	30.00	30.12	29.90	81.2	82.6	85.4	83.1	76.5	77.3	78.1	76.6	89.4	77.7	83.6	91	71	75	75	75	74	75	81	78	72	74	76
August	29.96	30.12	29.86	81.8	82.3	85.3	82.9	77.1	77.2	78.0	77.0	89.2	77.3	83.2	92	69	75	75	75	75	75	81	80	72	77	78
September	29.95	30.14	29.74	81.1	81.7	85.0	82.7	76.7	77.1	77.8	76.8	89.1	77.1	83.1	92	72	75	75	75	75	75	82	81	73	77	78
October	29.93	30.11	29.70	79.5	79.3	82.8	80.0	75.4	75.4	76.3	75.0	85.6	74.8	80.2	91	68	74	74	74	73	74	83	84	74	80	80
November	30.03	30.23	29.86	70.6	69.4	74.8	71.6	66.2	65.5	67.8	66.6	76.8	68.0	72.4	84	53	64	63	64	64	64	79	81	69	77	76
December	30.04	30.23	29.77	67.8	66.6	73.5	68.5	64.6	63.9	66.7	65.2	75.5	63.4	69.4	81	54	63	62	63	63	63	84	86	70	84	81
Year	30.00	30.28	29.70	-----	75.8	-----	77.0	-----	71.4	-----	71.5	83.3	72.5	77.9	92	53	----	69	----	69	69	----	81	----	77	78

[1] Pressure at airport adjusted to the old (city) station elevation of 963 feet.
[2] Airport data beginning with July.
[3] Pressure at airport adjusted to the old (city) station elevation of 21 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KALISPELL, MONT.

[H=2,956 ft.; H_b=2,973 ft.; H_t=48 ft.; H_r=40 ft.; H_a=56 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.27	0.29	18.8	8.5	4.3	W.	20	W.	0	1	3	27	15	10	23	14	0	17	0	0	1	7	0	0	28	0	0
February	.93	.15	17.0	7.8	5.5	NW.	26	N.	0	3	6	19	16	10	21	15	0	8	0	0	0	12	0	0	25	6	0
March	.84	.30	12.6	6.7	5.5	NW.	17	W.	0	7	3	21	9	6	13	9	0	7	0	0	0	3	0	0	25	0	0
April	.56	.44	1.0	6.5	6.7	NW.	26	SW.	0	6	7	17	5	3	3	2	0	2	0	0	0	0	0	0	12	0	0
May	1.09	.50	.0	6.2	6.6	W.	26	SW.	0	9	5	17	10	4	0	0	0	0	0	0	0	0	0	0	1	0	5
June	3.80	1.00	.0	7.2	5.4	W.	25	NE.	0	3	12	15	18	13	0	0	4	0	0	0	0	0	1	0	0	0	10
July	.38	.15	.0	3.7	6.5	W.	26	W.	0	15	12	4	6	4	0	0	1	0	0	0	0	0	9	2	0	0	4
August	.21	.15	.0	3.7	6.7	NW.	23	W.	0	15	11	5	6	1	0	0	0	0	0	0	0	0	2	0	0	0	5
September	.96	.42	.0	5.4	6.7	NW.	22	W.	0	11	8	11	7	6	0	0	0	0	0	0	0	0	0	0	1	0	2
October	.22	.12	2.9	7.6	6.2	NW.	24	N.	0	2	7	22	4	2	4	2	0	5	0	0	0	1	0	0	9	0	0
November	.59	.38	T	7.5	4.1	NW.	29	W.	0	3	7	20	6	2	2	1	0	13	7	8	1	6	0	0	23	0	0
December	.94	.25	5.2	8.0	4.4	NW.	23	SW.	0	2	7	22	18	8	12	7	0	10	3	0	0	9	0	0	24	0	0
Year	11.79	1.00	57.5	6.6	5.7	NW.	29	W.	0	77	88	200	120	69	78	50	5	62	10	8	2	38	12	2	148	6	26

KANSAS CITY, MO. (Airport)

[H=741 ft.; H_b=750 ft.; H_t=38 ft.; H_r=3 ft.; H_a=76 ft.]

January	1.28	0.49	6.1	6.5	10.4	SW.	34	SW.	1	7	8	16	9	7	6	3	0	6	1	1	1	2	0	0	17	0	0
February	.98	.73	5.8	5.1	11.5	SW.	36	NW.	3	11	6	11	5	4	9	5	0	5	1	0	0	7	0	0	27	1	0
March	1.14	.63	.3	5.5	10.4	SW.	34	NW.	2	11	7	13	10	6	4	2	1	6	1	1	1	0	0	0	12	0	1
April	7.04	4.67	.1	6.2	10.5	SW.	30	N.	0	7	9	14	12	8	2	2	1	6	1	0	0	0	0	0	4	0	5
May	2.85	1.35	.0	4.9	8.1	SW.	27	SW.	0	13	9	9	10	6	0	0	2	5	1	0	1	0	4	1	0	0	4
June	10.99	2.85	.0	6.0	8.4	S.	50	W.	4	6	11	13	12	11	0	0	1	4	0	1	1	0	7	3	0	0	11
July	1.18	.93	.0	4.1	8.1	SW.	40	SW.	1	13	14	4	7	4	0	0	0	0	0	0	0	0	25	17	0	0	5
August	4.64	2.21	.0	5.0	7.4	E.	33	W.	1	11	13	7	11	9	0	0	0	2	1	0	0	0	10	4	0	0	11
September	.54	.49	.0	2.8	8.5	SW.	34	SW.	1	20	5	5	3	2	0	0	0	0	0	0	0	0	17	10	0	0	2
October	.95	.78	.0	3.2	10.0	SW.	34	N.	1	20	5	6	3	3	0	0	0	0	0	0	0	0	3	1	2	0	2
November	2.45	1.36	.0	5.4	8.3	SW.	37	SW.	1	13	6	11	7	5	0	0	0	12	6	7	7	0	0	0	10	0	2
December	.68	.48	4.1	5.6	9.7	SW.	34	NW.	3	9	10	12	6	2	7	4	0	5	1	0	0	6	0	0	15	0	0
Year	34.72	4.67	16.4	5.0	9.3	SW.	50	W.	18	141	103	121	95	67	28	16	5	51	13	10	11	15	66	36	87	1	43

KEOKUK, IOWA

[H=574 ft.; H_b=614 ft.; H_t=64 ft.; H_r=56 ft.; H_a=78 ft.]

January	0.92	0.27	3.7	7.1	8.6	SW.	27	NW.	0	5	9	17	12	8	11	6	0	2	1	1	1	6	0	0	20	0	1
February	1.48	.94	.9	6.9	9.5	NW.	32	W.	1	4	10	14	8	5	11	5	1	3	1	1	1	11	0	0	28	1	2
March	3.69	2.26	T	5.0	9.2	SW.	29	NW.	0	14	5	12	10	9	3	0	0	8	2	0	0	1	0	0	15	0	2
April	4.96	1.84	T	6.3	9.0	NW.	24	SW.	0	8	7	15	14	11	2	0	0	5	1	1	1	0	0	0	6	0	8
May	5.80	4.40	.0	5.6	6.8	SW.	31	W.	0	10	8	13	10	7	0	0	0	1	0	0	0	0	2	0	0	0	6
June	4.42	1.25	.0	5.9	7.1	S.	24	W.	0	10	7	13	13	9	0	0	0	1	1	0	0	0	4	0	0	0	10
July	2.37	1.21	.0	5.2	6.0	SW.	24	W.	0	10	13	8	6	6	0	0	0	0	0	0	0	0	12	5	0	0	10
August	4.81	1.45	.0	5.3	5.8	E.	25	NW.	0	12	11	8	12	10	0	0	0	6	0	0	0	0	5	0	0	0	12
September	.23	.23	.0	2.8	7.2	SW.	22	S.	0	20	5	5	1	1	0	0	0	2	0	0	0	0	10	7	0	0	1
October	2.35	1.88	T	4.4	8.2	SW.	25	W.	0	15	8	8	8	5	1	0	1	1	0	0	0	0	1	0	3	0	6
November	1.70	.64	T	5.6	6.8	SW.	24	NW.	0	12	5	13	8	7	1	0	0	6	2	2	2	0	0	0	11	0	0
December	.34	.31	5.9	5.5	7.9	NW.	24	NW.	0	10	9	12	3	2	8	3	0	3	2	2	1	7	0	0	20	1	0
Year	33.07	4.40	10.5	5.5	7.7	SW.	32	W.	1	130	97	138	105	80	37	14	2	38	10	7	6	25	34	12	103	2	58

KEY WEST, FLA.

Airport [H=2 ft.; H_b=11 ft.; H_t=4 ft.; H_r=2 ft.; H_a=30 ft.] City [H=5 ft.; H_b=21 ft.; H_t=10 ft.; H_r=3 ft.; H_a=64 ft.]

January	1.73	1.24	0.0	5.1	9.9	NE.	23	NW.	0	11	13	7	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0
February	2.45	1.51	.0	4.2	11.0	SE.	23	N.	0	13	9	6	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0
March	.08	.04	.0	2.1	10.2	SE.	24	NW.	0	26	5	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	3
April	7.46	2.32	.0	4.5	10.3	SE.	31	NW.	0	14	9	7	12	12	0	0	0	0	0	0	0	0	0	0	0	0	6
May	2.71	.90	.0	5.6	9.6	E.	19	E.	0	8	13	10	12	7	0	0	0	0	0	0	0	0	0	0	0	0	5
June	1.97	.99	.0	6.1	9.1	SE.	24	SE.	0	7	11	12	9	7	0	0	0	0	0	0	0	0	0	0	0	0	6
July	3.15	1.13	.0	5.4	8.3	SE.	33	NW.	1	10	13	8	8	7	0	0	0	0	0	0	0	0	11	0	0	0	13
August	3.73	1.22	.0	6.3	7.8	E.	24	NW.	0	6	13	12	16	12	0	0	0	0	0	0	0	0	13	0	0	0	20
September	3.18	1.85	.0	5.2	7.5	E.	26	SW.	0	6	20	4	14	10	0	0	0	0	0	0	0	0	8	0	0	0	18
October	11.83	5.56	.0	5.5	9.2	E.	32	NW.	1	9	16	6	19	12	0	0	0	0	0	0	0	0	2	0	0	0	8
November	.13	.06	.0	4.6	12.3	NE.	25	N.	0	14	5	11	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0
December	3.70	3.22	.0	3.6	8.4	NE.	26	N.	0	15	12	4	5	4	0	0	0	0	0	0	0	0	0	0	0	0	2
Year	42.12	5.56	.0	4.8	9.4	E.	33	NW.	2	139	139	87	115	82	0	0	0	0	0	0	0	0	34	0	0	0	81

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KNOXVILLE, TENN.

Airport [ϕ=35°49′ N.; λ=83°59′ W.] City [ϕ=35°58′ N.; λ=83°55′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.02	29.41	28.39		37.0	47.1	45.7		35.1	41.2	39.5	52.2	33.0	42.6	70	23		33	34	32	33		84	62	58	68
February	29.03	29.44	28.40		40.9	51.0	49.2		38.4	44.5	42.9	57.9	36.2	47.0	78	16		35	37	35	36		79	60	61	67
March	29.04	29.51	28.37		45.3	57.4	56.5		41.9	47.9	47.3	62.8	41.0	51.9	83	27		38	38	37	38		76	51	52	60
April	28.95	29.48	28.56		50.3	61.8	61.3		46.4	50.7	50.4	67.9	46.6	57.2	84	32		42	39	40	40		75	47	48	57
May	28.96	29.16	28.61		61.5	75.1	72.9		57.6	62.1	61.8	79.6	57.6	68.6	90	42		54	53	54	54		79	48	54	60
June	28.97	29.18	28.80		72.2	83.5	81.4		68.5	71.6	70.7	88.2	68.1	78.2	97	63		67	66	66	66		84	58	59	67
July	28.96	29.12	28.79	71.5	71.2	86.3	82.0	68.4	68.1	72.1	71.5	89.3	68.2	78.8	96	61	67	67	66	67	66	86	86	51	61	71
August	28.95	29.14	28.66	69.2	67.8	85.0	79.4	66.7	66.2	71.1	69.7	88.4	66.7	77.6	97	58	66	65	64	65	65	88	92	52	63	74
September	29.01	29.28	28.78	68.0	64.3	83.8	78.3	63.8	61.8	68.5	67.0	88.0	63.8	75.9	99	54	62	60	60	61	61	81	88	47	57	68
October	29.04	29.31	28.79	56.1	51.7	72.1	65.8	52.3	49.5	57.9	55.5	75.9	51.3	63.6	90	36	49	48	47	47	48	78	86	42	52	65
November	29.18	29.49	28.82	40.6	36.2	54.4	49.2	37.5	34.3	44.1	41.8	57.2	36.9	47.0	72	27	33	32	32	33	32	76	84	45	56	65
December	28.97	29.33	28.42	38.8	35.8	47.7	43.7	35.8	33.8	40.5	38.9	50.6	34.1	42.4	68	23	32	31	32	32	32	76	83	55	65	70
Year	29.01	29.51	28.37		52.8	67.1	63.8		50.1	56.0	54.8	71.5	50.3	60.9	99	16		48	47	47	48		83	52	57	66

LACROSSE, WIS.

Airport [ϕ=43°56′ N.; λ=91°17′ W.] City [ϕ=43°49′ N.; λ=91°15′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.18	29.62	28.56		21.6	28.0	27.5		20.5	25.7	25.3	31.6	17.8	24.7	51	−3		18	20	21	20		84	72	75	77
February	29.25	29.74	28.30		10.9	20.6	21.2		9.9	18.2	18.7	27.6	6.4	17.0	45	−12		6	12	12	10		78	66	66	70
March	29.27	29.75	28.69		25.7	37.0	37.5		24.0	32.0	32.7	42.7	23.8	33.2	75	4		20	24	26	23		78	58	62	66
April	29.16	29.67	28.63		38.0	50.0	50.1		35.2	41.7	41.6	54.6	35.6	45.1	86	19		32	32	32	32		77	53	51	60
May	29.15	29.62	28.74		56.2	72.8	72.6		51.7	59.5	59.2	76.6	53.4	65.0	92	38		47	49	49	48		74	45	44	54
June	29.13	29.48	28.68		64.0	76.6	74.8		61.0	66.3	65.7	80.0	60.6	70.3	92	48		59	61	61	60		85	60	63	69
July	29.20	29.44	28.98	68.2	66.7	83.7	82.9	64.3	63.3	69.1	69.0	86.5	64.6	75.6	97	56	62	61	62	62	62	82	83	49	50	66
August	29.19	29.56	28.86	64.8	62.7	78.9	77.3	62.0	60.7	67.4	67.1	81.8	60.7	71.2	91	53	60	59	61	62	60	86	90	57	60	73
September	29.22	29.62	28.74	59.4	55.8	74.1	69.0	55.5	53.0	61.0	59.9	77.0	53.9	65.4	97	35	53	51	52	54	52	80	84	48	60	68
October	29.18	29.78	28.78	45.9	43.2	55.7	51.8	42.5	40.2	47.3	45.7	60.2	41.2	50.7	79	25	39	36	39	40	38	76	78	55	64	68
November	29.46	29.98	28.87	32.0	29.8	43.4	37.1	29.9	28.1	37.3	33.7	47.4	28.8	38.1	69	19	27	26	29	29	28	81	84	59	72	74
December	29.17	29.65	28.70	27.6	25.0	33.6	30.1	25.7	23.5	29.8	27.3	38.5	22.5	30.5	55	−2	22	21	24	22	22	80	83	67	74	76
Year	29.21	29.98	28.30		41.6	54.5	52.7		39.3	46.3	45.5	58.7	39.1	48.9	97	−12		36	39	39	38		82	57	62	68

LANDER, WYO.

[ϕ=42°50′ N.; λ=108°45′ W.]

January	24.55	25.04	24.08	21.2	16.8	29.2	30.7	18.7	15.1	24.5	25.1	37.6	12.7	25.2	52	0	13	11	16	15	14	70	76	57	51	64
February	24.51	24.93	24.10	8.8	5.8	15.8	21.1	7.5	4.6	13.1	17.8	26.3	−0.9	12.7	47	−24	4	1	6	11	6	80	78	66	63	72
March	24.60	24.96	24.20	31.6	25.6	40.2	45.7	27.0	22.1	31.8	35.2	48.5	22.0	35.2	69	−5	20	16	20	21	19	64	66	46	40	54
April	24.63	25.10	24.33	42.8	35.2	53.0	56.5	35.5	31.1	39.8	41.9	61.1	31.9	46.5	80	1	27	26	24	25	26	55	69	34	36	48
May	24.62	24.96	24.25	52.9	44.1	64.1	66.3	44.0	39.2	47.3	48.6	71.2	41.6	56.4	87	32	35	34	31	32	33	54	68	31	31	46
June	24.60	24.90	24.20	55.8	49.9	64.6	69.4	47.5	44.3	50.9	52.0	72.8	46.0	59.4	84	36	40	39	39	38	39	59	69	43	34	51
July	24.72	24.98	24.41	66.9	58.1	80.0	84.2	52.5	49.2	57.9	58.0	87.8	54.9	71.4	100	48	41	42	42	38	41	41	57	27	22	37
August	24.74	25.04	24.50	62.3	53.3	75.5	78.7	50.7	45.6	55.0	55.6	83.2	51.0	67.1	92	38	42	39	39	38	40	49	60	29	26	41
September	24.71	25.11	24.41	56.2	46.2	67.4	70.1	46.4	41.1	51.0	52.3	74.4	42.8	58.6	85	29	38	36	37	38	37	52	70	36	34	48
October	24.66	25.04	24.27	44.2	36.5	55.4	57.3	37.2	32.5	42.5	43.3	62.7	32.6	47.6	73	22	29	28	28	28	28	57	70	37	35	50
November	24.80	24.98	24.41	29.6	23.9	43.0	43.6	25.0	20.8	33.6	33.7	52.1	19.9	36.0	64	9	16	14	20	19	17	56	65	39	36	49
December	24.67	24.99	24.35	28.2	23.5	37.9	35.8	23.2	20.0	30.0	28.6	45.2	17.7	31.4	64	−6	14	13	18	18	16	59	67	48	50	56
Year	24.65	25.11	24.08	41.7	34.9	52.2	55.0	34.6	30.5	39.8	41.0	60.2	31.0	45.6	100	−24	27	25	27	27	26	58	68	41	38	51

LANSING, MICH.

[ϕ=42°44′ N.; λ=84°26′ W.]

						(4)				(4)								(4)				(4)			
January	29.01	29.40	28.52		24.9	29.6	26.6		23.8	27.4	25.5	33.3	20.2	26.8	56	3		22	24	24	23		88	78	87	88
February	29.05	29.62	28.40		22.1	28.9	25.0		21.3	26.1	23.6	33.1	16.5	24.8	51	3		20	21	20	20		89	70	82	86
March	29.08	29.55	28.50		27.8	36.4	33.7		26.4	32.8	31.2	40.5	23.5	32.0	78	7		24	27	28	26		84	69	78	81
April	28.98	29.52	28.50		37.3	48.6	45.8		35.6	42.4	41.2	51.9	34.0	43.0	82	19		34	36	36	35		83	63	70	76
May	29.03	29.39	28.49		53.5	69.2	65.8		50.6	59.1	57.7	71.8	48.8	60.3	87	30		48	52	52	50		82	56	62	72
June	29.01	29.30	28.51		63.1	75.5	72.6		60.4	66.6	65.4	78.2	58.0	68.1	89	43		58	62	62	60		86	64	69	77
July	29.05	29.25	28.72		64.9	80.2	77.3		61.4	67.3	66.3	82.4	59.9	71.2	93	46		59	60	60	60		82	52	57	69
August	29.04	29.39	28.73		62.4	78.5	74.3		60.4	66.8	65.8	80.5	59.5	70.0	90	53		59	60	61	60		89	56	65	77
September	29.09	29.51	28.72		56.4	72.7	66.0		53.9	62.0	59.1	74.9	52.2	63.6	94	35		52	56	55	53		86	56	67	77
October	29.06	29.48	28.58		44.6	58.8	52.6		42.9	50.7	47.9	61.1	40.7	50.9	84	26		41	44	44	42		88	60	72	80
November	29.27	29.75	28.76		32.4	43.3	38.7		31.3	38.6	35.8	45.3	29.4	37.4	61	22		30	33	32	31		89	67	76	83
December	28.94	29.38	28.54		30.2	35.8	32.2		29.1	33.1	30.4	37.3	26.4	31.8	53	6		27	29	28	27		88	76	83	86
Year	29.05	29.75	28.40		43.3	54.8	50.9		41.4	47.7	45.8	57.5	39.1	48.3	94	3		40	42	42	41		86	64	72	79

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 995 feet.
[3] Pressure at airport adjusted to the old (city) station elevation 714 feet.
[4] Local noon time January to July, inclusive.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KNOXVILLE, TENN.

Airport [H=950 ft.; H_b=980 ft.; H_t=27 ft.; H_r=26 ft.; H_a=45 ft.] City [H=921 ft.; H_b=995 ft.; H_t=66 ft.; H_r=57 ft.; H_a=84 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	3.82	0.94	0.3	5.2	6.6	W.	30	SW.	0	10	10	11	16	14	4	1	0	4	3	3	1	0	0	0	13	0	1
February	10.69	3.34	T	6.0	6.6	NE.	27	W.	0	10	3	15	15	15	2	0	0	12	7	6	0	1	0	0	10	0	3
March	5.04	2.20	.5	5.4	6.6	W.	30	W.	0	12	7	12	13	13	2	1	0	6	5	2	2	0	0	0	3	0	3
April	5.00	1.25	.0	5.0	6.8	SW.	23	W.	0	12	7	11	11	10	0	0	3	6	5	1	0	0	0	0	1	0	6
May	1.03	.25	.0	5.5	4.9	W.	24	W.	0	9	11	11	13	9	0	0	0	5	2	1	1	0	0	0	0	0	7
June	4.83	2.29	.0	5.8	5.1	W.	24	NW.	0	7	14	9	16	11	0	0	0	6	1	1	0	0	9	1	0	0	13
July	8.37	3.71	.0	4.6	4.9	W.	17	NE.	0	10	15	6	10	7	0	0	0	12	2	1	0	0	14	1	0	0	7
August	2.12	.56	.0	4.6	4.6	E.	18	NW.	0	15	8	8	12	9	0	0	1	12	11	6	3	0	11	1	0	0	8
September	.94	.33	.0	3.1	4.6	W.	21	NE.	0	18	7	5	5	4	0	0	0	10	5	2	1	0	13	4	0	0	7
October	.38	.10	.0	3.5	5.2	SW.	20	NW.	0	17	9	5	4	4	0	0	0	6	3	2	1	0	1	0	0	0	0
November	2.21	.97	T	5.6	4.6	NE.	16	SW.	0	11	5	14	7	7	1	0	0	8	6	2	2	0	0	0	5	0	0
December	3.18	1.02	T	5.2	6.5	W.	21	W.	0	13	6	12	10	7	4	1	0	8	5	3	2	0	0	0	11	0	1
Year	47.61	3.71	.8	5.0	5.6	W.	30	SW.	0	144	102	119	132	110	13	3	4	95	55	30	13	1	48	7	43	0	56

LACROSSE, WIS.

Airport [H=665 ft.; H_b=672 ft.; H_t=5 ft.; H_r=3 ft.; H_a=82 ft.] City [H=674 ft.; H_b=714 ft.; H_t=11 ft.; H_r=3 ft.; H_a=48 ft.]

January	1.10	0.23	10.0	7.9	5.9	S.	22	NW.	0	3	6	22	13	8	18	10	0	20	0	0	2	15	0	0	29	1	1
February	2.19	.91	18.8	5.4	6.5	S.	20	SE.	0	9	8	11	10	8	14	9	0	9	2	0	1	16	0	0	28	8	1
March	.49	.22	3.6	5.4	6.4	S.	22	NW.	0	11	8	12	6	2	10	4	0	16	3	1	2	8	0	0	24	0	0
April	2.27	1.40	T	6.1	7.0	NW.	19	NW.	0	9	7	14	10	5	9	3	1	9	0	0	0	1	0	0	11	0	1
May	2.03	1.24	.0	4.8	5.7	S.	19	W.	0	11	11	9	3	3	0	0	0	6	1	0	0	0	1	0	0	0	4
June	1.89	.61	.0	5.7	5.1	S.	18	W.	0	5	14	11	11	7	0	0	0	8	1	0	1	0	2	0	0	0	5
July	1.46	.81	.0	4.4	4.5	S.	19	W.	0	13	12	6	8	6	0	0	0	8	1	1	0	0	10	3	0	0	6
August	6.74	4.89	.0	5.1	4.2	S.	19	SE.	0	12	11	8	9	8	0	0	0	14	1	3	2	0	3	0	0	0	5
September	.93	.43	.0	4.1	5.0	S.	16	N.	0	15	6	9	6	5	0	0	0	10	2	1	3	0	6	3	0	0	2
October	1.71	.86	.5	5.5	6.0	S.	19	S.	0	10	10	11	10	6	4	1	0	6	1	1	0	0	0	0	7	0	1
November	.29	.12	.5	4.4	5.3	S.	18	W.	0	14	8	8	6	3	3	2	1	15	5	4	2	0	0	0	20	0	1
December	.48	.29	.5	6.2	6.2	S.	22	NW.	0	8	8	15	2	2	7	1	0	18	1	0	0	12	0	0	27	1	0
Year	21.58	4.89	33.9	5.4	5.6	S.	22	NW.	0	120	109	136	94	63	65	30	2	139	18	11	13	52	22	6	146	10	27

LANDER, WYO.

[H=5,351 ft.; H_b=5,352 ft.; H_t=60 ft.; H_r=54 ft.; H_a=68 ft.]

January	0.28	0.21	3.0	5.2	4.7	SW.	35	SW.	1	10	13	8	4	1	5	4	0	0	0	0	0	5	0	0	31	1	0
February	1.20	.73	14.0	5.7	4.7	SW.	41	SW.	2	6	13	9	7	5	9	7	0	0	0	0	0	20	0	0	28	15	0
March	.50	.29	4.5	4.1	5.3	SW.	37	SW.	1	15	11	5	4	4	6	4	0	1	0	0	0	4	0	0	25	1	0
April	.80	.45	6.9	5.4	6.2	W.	30	NW.	0	10	12	8	9	5	6	6	0	0	0	0	0	0	0	0	15	0	1
May	2.80	1.60	T	4.8	6.2	SW.	47	SW.	1	14	11	6	6	6	1	0	0	0	0	0	0	0	0	0	1	0	3
June	.80	.88	.0	5.4	6.3	SW.	32	SW.	1	7	15	8	4	3	0	0	0	0	0	0	0	0	0	0	0	0	6
July	.35	.33	.0	4.3	5.5	W.	30	W.	0	15	10	6	2	1	0	0	0	0	0	0	0	0	11	4	0	0	7
August	.20	.09	.0	4.2	4.7	SW.	29	SE.	0	16	10	5	4	2	0	0	0	0	0	0	0	0	4	0	0	0	2
September	.64	.52	.0	4.0	5.4	SW.	25	SW.	0	15	7	8	7	3	0	0	0	1	1	0	0	0	0	0	2	0	1
October	.31	.12	.9	4.4	5.0	SW.	32	W.	1	11	14	6	5	3	1	1	0	0	0	0	0	0	0	0	16	0	1
November	.00	.00	.0	3.2	3.6	SW.	22	W.	0	14	14	2	0	0	0	0	0	0	0	0	0	0	0	0	30	0	0
December	.07	.04	.7	4.9	4.9	SW.	31	W.	0	9	18	4	4	0	4	4	0	0	0	0	0	7	0	0	31	3	0
Year	7.95	1.60	30.0	4.6	5.2	SW.	47	SW.	7	142	148	75	56	33	32	26	0	2	1	0	0	36	15	4	179	20	21

LANSING, MICH.

[H=856 ft.; H_b=878 ft.; H_t=5 ft.; H_r=3 ft.; H_a=90 ft.]

January	2.34	0.72	18.7	7.9	10.0	S.	29	W.	0	4	5	22	16	12	17	12	0	1	0	0	0	15	0	0	26	0	0
February	3.15	1.49	8.7	6.6	10.9	SW.	28	S.	0	4	11	13	11	9	16	7	0	3	0	0	0	12	0	0	27	0	1
March	1.52	.74	4.9	7.3	10.4	SW.	32	SW.	1	4	11	16	11	6	12	6	0	1	0	0	0	7	0	0	27	0	1
April	4.21	1.37	8.1	6.7	10.1	SW.	26	SW.	0	4	12	14	13	12	10	7	0	1	0	0	0	1	0	0	12	0	1
May	2.07	.52	.0	4.5	7.8	SW.	23	SW.	0	10	16	5	8	8	0	0	0	3	1	0	0	0	0	0	3	0	6
June	3.77	1.24	.0	5.7	7.8	SW.	22	W.	0	6	13	11	16	13	0	0	0	1	0	0	0	0	0	0	0	0	12
July	1.60	1.23	.0	4.5	7.2	S.	19	NW.	0	14	11	6	5	2	0	0	0	1	0	0	0	0	4	0	0	0	3
August	1.97	.63	.0	4.2	7.0	SW.	22	SW.	0	15	13	3	9	7	0	0	0	2	1	0	0	0	1	0	0	0	5
September	1.41	.65	.0	4.2	7.9	S.	22	W.	0	14	9	7	7	6	0	0	0	2	0	0	0	0	4	0	0	0	1
October	3.60	1.58	T	5.5	9.0	S.	22	W.	0	10	11	10	14	10	2	0	0	6	0	0	0	0	0	0	7	0	3
November	.65	.25	.5	5.3	8.6	SW.	23	SW.	0	11	7	12	6	5	4	1	0	8	1	0	0	0	0	0	21	0	0
December	.89	.42	2.9	7.7	10.0	NW.	29	NW.	0	3	8	20	9	5	8	3	0	0	0	0	0	9	0	0	22	0	0
Year	27.18	1.58	43.8	5.8	8.9	SW.	32	SW.	1	99	127	139	125	95	69	36	0	29	3	0	0	44	9	0	145	0	33

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

LINCOLN, NEBR.

Airport [ϕ=40°51′ N.; λ=96°46′ W.] City [ϕ=40°49′ N.; λ=96°45′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1)	*In.* (1)	*In.* (1)	°	° (1)	° (1)	° (1)	°	° (1)	° (1)	° (1)	°	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	28.67	29.23	28.13		29.9	39.5	37.8		26.9	33.7	32.6	44.1	25.5	34.8	72	8		22	25	24	24		71	58	60	63
February	28.75	29.32	28.01		17.0	27.3	27.1		15.0	22.7	22.8	34.4	10.5	22.4	54	−11		11	13	14	13		75	54	56	62
March	28.76	29.19	28.20		33.1	46.0	47.0		30.7	38.8	39.5	51.5	30.6	41.0	83	11		27	30	31	29		79	57	57	64
April	28.68	29.17	28.29		43.3	57.2	58.7		39.7	46.7	48.0	62.0	41.3	51.6	88	21		35	35	37	36		74	47	48	56
May	28.63	29.07	28.21		58.9	77.6	79.0		53.4	61.3	61.6	82.4	56.8	69.6	98	41		49	50	49	49		70	39	37	49
June	28.61	29.03	28.22		66.4	80.9	82.0		61.9	66.5	67.5	85.9	63.4	74.6	99	51		59	58	60	59		79	49	49	59
July	28.66	28.94	28.38		70.9	91.1	91.1		65.6	71.6	70.7	94.2	69.6	81.9	111	62		63	62	60	62		77	40	39	52
August	28.68	28.90	28.37		64.1	84.3	83.2		60.2	67.1	66.2	86.7	63.2	75.0	99	52		58	57	56	57		81	42	42	55
September	28.71	29.14	28.27		59.5	81.6	80.5		51.5	61.1	59.7	87.5	58.4	73.0	105	31		45	46	44	45		61	31	29	40
October	28.70	29.27	28.19		44.7	64.6	60.1		40.2	51.4	48.6	69.8	43.1	56.4	87	27		35	39	36	37		70	42	44	52
November	28.97	29.44	28.39		31.0	52.1	43.9		27.7	41.7	36.4	54.5	31.6	43.0	71	19		22	28	25	25		70	42	49	54
December	28.74	29.10	28.40		27.2	42.6	35.2		24.5	34.4	29.8	46.2	25.7	36.0	75	−5		20	23	22	22		74	50	60	61
Year	28.71	29.44	28.01		45.5	62.1	60.5		41.4	49.8	48.6	66.6	43.3	54.9	111	−11		37	39	38	38		73	46	48	56

LITTLE ROCK, ARK.

Airport [ϕ=34°45′ N.; λ=92°13′ W. City [ϕ=34°45′ N.; λ=92°16′ W.]

	(1 2)	(1 2)	(1 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.69	30.12	28.95		41.3		50.4		38.3		44.0	54.7	37.8	46.2	70	25		34		36	35		76		60	68
February	29.68	30.22	29.11		39.2		48.3		36.8		43.2	52.6	35.4	44.0	72	22		33		37	35		79		67	73
March	29.70	30.12	29.12		48.9		62.9		44.3		51.4	66.4	46.8	56.6	82	32		39		40	39		70		46	58
April	29.62	30.15	29.13		52.4		65.8		47.6		54.5	69.0	50.1	59.6	83	35		42		44	43		70		48	59
May	29.56	29.87	29.16		63.3		74.6		60.3		64.5	78.6	61.1	69.8	88	51		58		58	58		84		60	72
June	29.57	29.79	29.33		73.1		81.3		70.0		72.6	87.0	70.6	78.8	92	65		68		69	69		86		67	76
July	29.59	29.78	29.44	76.6	75.1	90.3	86.4	73.6	72.3	77.8	76.9	91.5	73.2	82.4	102	67	72	71	73	73	72	87	88	58	66	75
August	29.57	29.74	29.34	74.2	71.6	89.4	84.2	71.1	69.7	76.1	74.3	90.4	71.2	80.8	97	65	70	69	71	70	70	86	91	55	64	74
September	29.61	29.85	29.36	72.9	67.8	91.0	82.9	68.0	65.0	73.5	70.5	91.8	69.7	80.8	103	52	66	63	65	64	64	78	86	44	55	66
October	29.69	30.10	29.44	58.0	53.6	76.4	68.0	54.6	51.5	62.9	59.6	77.2	54.9	66.0	92	34	52	50	54	53	52	81	87	46	60	68
November	29.89	30.32	29.53	44.3	41.4	56.7	51.3	41.4	39.7	48.7	45.7	58.6	41.5	50.0	76	29	38	38	40	39	39	80	87	56	65	72
December	29.67	30.00	29.22	41.9	39.0	52.6	48.0	39.7	37.1	45.6	43.7	55.3	38.8	47.0	76	22	37	34	38	38	37	83	84	60	71	74
Year	29.66	30.32	28.95		55.6		67.0		52.7		58.4	72.8	54.3	63.5	103	22		50		52	51		82		61	70

LOS ANGELES, CALIF.

[ϕ=34°03′ N.; λ=118°15′ W.]

						(3)				(3)								(3)				(3)			
January	28.70	29.95	29.42		51.7	61.9	61.2		45.5	50.7	51.6	64.8	49.3	57.0	79	41		38	39	42	40		63	48	54	55
February	29.73	30.02	29.39		48.2	58.9	58.6		41.9	46.8	47.4	62.2	45.9	54.0	76	38		33	32	33	33		60	40	44	48
March	29.70	29.95	29.45		50.5	61.3	60.1		47.2	52.2	52.3	64.2	49.3	56.8	79	45		44	43	45	44		78	55	60	64
April	29.63	29.79	29.48		55.8	69.0	66.7		52.2	57.5	56.6	71.7	54.4	63.0	91	48		49	48	48	48		80	52	56	63
May	29.60	29.75	29.45		56.6	69.0	68.0		53.0	58.5	57.9	71.7	55.6	63.6	89	52		50	51	50	50		80	55	55	63
June	29.55	29.68	29.45		59.5	73.1	72.0		56.6	62.1	60.9	75.7	58.1	66.9	84	55		55	55	53	54		84	54	53	64
July	29.57	29.67	29.47		63.3	77.3	74.6		60.1	65.8	64.2	79.6	61.7	70.6	89	59		58	59	58	58		83	54	57	65
August	29.54	29.67	29.43		64.8	79.2	77.5		61.7	66.5	66.0	82.5	63.6	73.0	89	60		60	59	60	60		84	52	55	64
September	29.52	29.66	29.22		69.1	84.3	80.0		61.2	66.2	64.7	86.5	66.8	76.6	107	57		56	55	55	55		66	42	47	52
October	29.60	29.83	29.41		63.5	79.6	75.3		53.6	59.7	59.1	82.2	61.0	71.6	99	52		44	43	46	44		55	32	40	42
November	29.67	29.85	29.50		59.6	74.3	69.6		51.2	57.8	58.0	76.9	57.2	67.1	87	52		42	42	48	44		57	38	51	49
December	29.69	29.89	29.43		56.4	71.0	67.8		48.7	55.2	56.6	74.2	54.2	64.2	88	45		40	40	48	43		58	37	51	49
Year	29.62	30.02	29.22		58.2	71.6	69.3		52.7	58.2	57.9	74.4	56.4	65.4	107	38		47	47	49	48		71	47	52	57

LOUISVILLE, KY.

Airport [ϕ=38°13′ N.; λ=85°40′ W.] City [ϕ=38°15′ N.; λ=85°45′ W.]

	(1 4)	(1 4)	(1 4)		(1)		(1)		(1)		(1)							(1)		(1)	(1)		(1)		(1)	(1)
January	29.47	29.88	28.72		37.1		42.6		34.2		37.8	48.0	33.3	40.6	67	19		30		32	31		76		65	70
February	29.52	29.99	28.97		34.6		40.7		32.3		36.2	48.0	28.4	38.2	74	14		29		30	30		80		67	73
March	29.51	29.97	28.80		42.3		52.5		38.4		44.0	58.7	38.4	48.6	81	24		34		34	34		72		52	62
April	29.41	30.03	29.01		47.2		58.2		43.0		49.0	61.6	44.9	53.2	81	25		38		39	39		72		52	62
May	29.42	29.74	28.95		60.2		74.0		55.8		61.7	77.8	58.0	67.9	91	40		52		53	53		76		50	63
June	29.41	29.70	29.09		70.8		78.9		67.1		70.1	83.8	67.8	75.8	91	56		65		66	66		83		66	75
July	29.42	29.67	29.24	70.5	70.0	84.2	81.0	67.5	67.4	71.5	70.5	87.2	68.6	37.9	95	62	66	66	65	65	66	86	88	55	61	75
August	29.42	29.63	29.13	68.8	66.9	82.7	79.2	66.4	65.2	69.8	69.8	85.4	67.3	76.4	91	60	65	64	63	65	65	89	92	54	63	77
September	29.46	29.71	29.21	67.0	62.3	84.1	78.8	61.8	59.0	67.5	65.9	87.4	63.9	75.6	99	48	59	57	58	59	58	76	83	44	52	67
October	29.50	29.89	29.18	53.7	50.6	69.2	63.2	49.1	47.2	56.1	53.7	72.3	51.0	61.6	89	35	45	44	45	45	45	72	79	44	54	67
November	29.70	30.04	29.38	37.7	34.7	50.3	44.6	35.1	32.7	41.9	39.6	52.5	36.7	44.6	67	29	32	30	32	33	32	79	84	52	66	75
December	29.44	29.82	28.99	35.0	32.5	41.9	38.9	32.7	30.8	36.5	34.7	46.0	31.2	38.6	67	9	30	28	29	29	28	80	83	62	68	75
Year	29.47	30.04	28.72		50.8		61.0		47.8		52.8	67.4	49.1	58.2	99	9		45		46	46		81		60	70

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 357 feet.
[3] Local noon time.
[4] Pressure at airport adjusted to the old (city) station elevation of 525 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

LINCOLN, NEBR.

Airport [H=1,181 ft.; H_b=1,189 ft.; H_t=5 ft.; H_r=3 ft.; H_a=31 ft.] City [H=1,180 ft.; H_b=1,189 ft.; H_t=3 ft.; H_r=4 ft.; H_a=81 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.59	0.28	7.9	6.1	9.7	S.	31	NW.	0	8	9	14	6	2	5	4	0	0	0	0	0	5	0	0	25	0	0
February	1.54	.73	16.4	4.5	11.5	S.	32	SW.	2	15	2	11	4	4	5	4	0	0	0	0	0	12	0	0	28	6	0
March	2.10	.75	5.8	4.9	10.2	S.	37	N.	3	13	6	12	8	6	6	4	0	2	2	1	1	2	0	0	20	0	4
April	1.66	.79	T	5.9	11.6	S.	36	N.	2	9	8	13	6	5	3	1	0	0	0	0	0	0	0	0	5	0	4
May	1.61	.91	.0	5.0	9.5	S.	30	S.	0	10	11	10	5	3	0	0	0	0	0	0	0	0	6	2	0	0	5
June	4.16	1.54	.0	5.0	9.7	S.	37	NW.	1	8	15	7	14	13	0	0	1	0	0	0	0	0	8	4	0	0	14
July	2.81	1.47	.0	4.2	8.6	SE.	39	NW.	2	14	12	5	11	8	0	0	1	1	0	0	6	0	21	16	0	0	9
August	2.61	.98	.0	4.6	8.6	E.	27	S.	0	12	11	8	12	9	0	0	0	1	1	0	0	0	12	3	0	0	11
September	.26	.26	.0	2.6	10.8	S.	31	NW.	0	22	4	4	2	2	0	0	0	0	0	0	0	0	14	12	1	0	2
October	.93	.67	T	3.7	9.9	S.	33	SW.	2	16	9	6	4	3	1	0	1	1	0	0	0	0	0	0	4	0	2
November	.52	.60	T	3.9	8.2	S.	29	SW.	0	17	5	8	1	1	1	0	0	4	2	2	2	0	0	0	14	0	0
December	.94	.45	8.0	5.1	8.6	NW.	36	NW.	3	10	13	8	6	5	7	5	0	3	2	2	2	9	0	0	17	1	0
Year	19.73	1.54	38.1	4.6	9.7	S.	39	NW.	15	154	105	106	79	61	28	18	3	12	7	5	5	28	61	37	114	7	51

LITTLE ROCK, ARK.

Airport [H=257 ft.; H_b=265 ft.; H_t=6 ft.; H_r=3 ft.; H_a=29 ft.] City [H=324 ft.; H_b=357 ft.; H_t=94 ft.; H_r=87 ft.; H_a=102 ft.]

January	7.86	2.30	0.0	5.2	8.9	NW.	30	SW.	0	13	6	12	11	9	0	0	0	9	2	1	1	0	0	0	8	0	2
February	8.59	2.57	1.0	6.4	9.1	SE.	30	W.	0	9	5	14	12	11	1	1	1	14	7	2	5	0	0	0	10	0	4
March	2.47	1.22	.0	5.2	8.9	S.	33	W.	1	13	4	14	7	6	0	0	0	4	2	0	1	0	0	0	0	0	3
April	7.97	3.89	.0	5.3	9.5	S.	39	NW.	1	10	10	10	8	8	0	0	1	1	0	0	0	0	0	0	0	0	7
May	6.95	1.98	.0	5.8	7.5	S.	41	N.	1	10	9	12	13	11	0	0	0	4	1	1	1	0	0	0	0	0	10
June	3.14	.77	.0	6.4	7.1	S.	24	W.	0	3	15	12	14	11	0	0	0	4	0	0	0	0	6	0	0	0	13
July	2.11	1.54	.0	7.6	7.6	SW.	36	SW.	1	20	5	6	5	4	0	0	0	1	0	0	0	0	19	9	0	0	9
August	2.92	.80	.0	4.0	6.8	SW.	38	NW.	1	14	14	3	10	9	0	0	0	0	0	0	0	0	20	2	0	0	6
September	2.36	2.32	.0	2.0	6.8	S.	23	S.	0	24	3	3	3	1	0	0	0	0	0	0	0	0	19	11	0	0	3
October	.66	.41	.0	2.9	7.1	S.	21	NW.	0	20	5	6	4	4	0	0	0	0	0	0	0	0	1	0	0	0	1
November	3.93	1.26	.0	5.3	6.6	NE.	20	NE.	0	14	2	14	9	7	0	0	0	10	3	0	0	0	0	0	3	0	0
December	1.41	.88	.1	4.9	8.0	W.	26	NW.	0	13	7	11	6	5	2	2	0	9	6	1	2	0	0	0	6	0	1
Year	50.37	3.89	.1	5.1	7.8	S.	41	N.	5	163	85	117	102	86	3	3	2	56	21	5	10	0	65	22	27	0	59

LOS ANGELES, CALIF.

[H=261 ft.; H_b=338 ft.; H_t=159 ft.; H_r=151 ft.; H_a=192 ft.]

January	2.96	1.99	0.0	4.3	6.1	NE.	21	NW.	0	16	5	10	4	3	0	0	0	3	0	0	2	0	0	0	0	0	0
February	1.13	.86	T	2.9	7.3	NE.	30	NW.	0	19	5	4	6	4	1	0	1	0	0	0	0	0	0	0	0	0	1
March	1.44	.90	.0	5.0	5.7	SW.	18	SE.	0	15	3	13	3	3	0	0	0	9	2	1	0	0	0	0	0	0	1
April	.24	.24	.0	4.5	5.7	SW.	24	SW.	0	11	14	5	2	2	0	0	0	12	3	1	4	0	2	0	0	0	1
May	.02	.01	.0	4.5	5.7	SW.	16	SW.	0	11	13	7	2	0	0	0	0	6	2	0	1	0	0	0	0	0	2
June	T	T	.0	2.6	5.7	SW.	17	SW.	0	21	9	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
July	T	T	.0	2.8	5.5	SW.	14	SW.	0	20	9	2	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0
August	.01	.01	.0	2.7	5.2	SW.	15	W.	0	19	11	1	1	0	0	0	0	9	2	0	0	0	0	0	0	0	0
September	5.67	5.42	.0	3.9	6.0	SW.	29	SE.	0	14	12	4	5	4	0	0	0	0	0	0	0	0	11	8	0	0	3
October	.13	.13	.0	2.0	5.9	NE.	15	NW.	0	23	5	3	1	1	0	0	0	2	0	0	1	0	9	3	0	0	0
November	.08	.08	0	2.8	5.3	NE.	14	NE.	0	18	10	2	1	1	0	0	0	4	1	0	0	0	0	0	0	0	0
December	.38	.28	.0	2.9	5.1	NE.	18	SE.	0	20	7	4	4	3	0	0	0	4	0	0	0	0	0	0	0	0	0
Year	12.06	5.42	T	3.4	5.8	SW.	30	NW.	0	207	103	55	29	21	1	0	1	60	11	2	8	0	22	11	0	0	8

LOUISVILLE, KY.

Airport [H=539 ft.; H_b=545 ft.; H_t=5 ft.; H_r=3 ft.; H_a=62 ft.] City [H=457 ft.; H_b=525 ft.; H_t=106 ft.; H_r=64 ft.; H_a=120 ft.]

January	4.42	1.77	2.0	7.5	12.0	S.	35	W.	4	5	6	20	12	9	9	3	0	0	0	0	0	0	0	0	14	0	0
February	6.95	1.53	6.4	6.6	11.9	S.	41	S.	3	7	6	15	16	14	4	4	0	0	0	0	0	1	0	0	13	0	0
March	7.11	2.82	T	4.4	11.6	S.	34	W.	2	17	6	8	9	8	3	0	0	0	0	0	0	0	0	0	9	0	4
April	4.96	1.54	T	5.3	11.7	S.	36	S.	3	11	5	14	15	10	1	0	0	0	0	0	0	0	0	0	4	0	5
May	.96	.41	.0	4.5	7.7	SW.	26	W.	0	13	12	6	7	6	0	0	0	0	0	0	0	0	2	0	0	0	0
June	7.00	2.24	.0	5.4	8.4	SW.	36	NW.	2	10	13	7	15	13	0	0	0	0	0	0	0	0	2	0	0	0	13
July	5.91	2.71	.0	5.0	6.6	SW.	31	N.	0	10	14	7	9	7	0	0	0	0	0	0	0	0	8	1	0	0	9
August	2.98	.88	.0	3.4	6.5	NE.	27	SW.	0	16	13	2	12	10	0	0	0	2	0	0	0	0	2	0	0	0	11
September	1.20	.88	.0	2.3	7.7	SW.	26	SW.	0	22	5	3	5	4	0	0	0	0	0	0	0	0	11	6	0	0	3
October	1.38	.86	.0	3.2	9.1	SW.	31	SW.	0	20	5	6	4	3	0	0	0	0	0	0	0	0	0	0	0	0	1
November	1.16	.59	T	5.5	7.3	NE.	35	SW.	1	14	1	15	6	5	1	0	0	0	0	0	0	0	0	0	6	0	0
December	2.43	.78	15.0	6.4	9.9	SW.	28	SW.	0	10	5	16	9	9	12	4	0	0	0	0	0	4	0	0	18	0	0
Year	46.46	2.82	23.4	4.9	9.2	S.	41	SW.	15	155	91	119	119	98	30	11	0	2	0	0	0	5	25	7	64	0	46

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

LYNCHBURG, VA.

[ϕ=37°25′ N.; λ=79°09′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.32	29.75	28.63		36.0	46.1	44.3		32.3	38.5	37.7	51.1	32.7	41.9	67	16		27	27	28	27		70	51	54	58
February	29.38	29.87	28.68		38.0	48.5	48.3		34.7	41.0	41.5	55.0	34.4	44.7	76	17		29	30	32	30		71	52	56	60
March	29.34	29.84	28.74		42.9	54.4	54.2		38.7	44.2	44.5	60.5	39.4	50.0	83	23		33	32	32	32		69	47	47	54
April	29.25	29.74	28.81		48.6	60.8	59.2		43.6	50.6	50.3	66.6	43.8	55.2	87	31		38	41	42	40		68	53	56	59
May	29.28	29.53	28.86		61.4	75.3	72.0		56.0	60.7	60.7	80.0	56.4	68.2	92	38		52	50	53	52		73	44	53	57
June	29.28	29.50	29.04		71.4	83.1	78.3		67.0	69.5	69.6	87.1	67.0	77.0	95	61		65	62	65	64		80	52	67	66
July	29.28	29.49	28.98		69.9	81.0	77.9		66.4	69.9	69.5	85.0	66.1	75.6	93	59		64	65	65	65		84	61	68	71
August	29.27	29.52	28.92		69.8	82.2	77.1		66.6	70.5	70.2	85.8	66.9	76.4	93	61		65	65	67	66		85	58	72	72
September	29.34	29.74	29.07		63.0	79.1	73.9		60.6	66.3	66.4	83.5	60.4	72.0	97	48		59	59	62	60		88	52	69	70
October	29.35	29.78	28.89		52.2	68.8	62.0		49.5	56.7	54.8	72.0	48.5	60.2	92	31		47	47	49	48		83	49	64	66
November	29.49	29.79	29.10		39.8	55.1	49.4		35.7	43.2	40.8	57.3	37.0	47.2	74	29		30	28	30	29		70	41	50	53
December	29.23	29.76	28.85		36.7	48.8	43.9		33.0	39.8	37.0	50.8	33.9	42.4	72	22		27	28	27	27		70	46	53	56
Year	29.32	29.87	28.63		52.5	65.3	61.7		48.7	54.2	53.6	69.6	48.9	59.2	97	16		45	44	46	45		76	50	59	62

MACON, GA.

Airport [ϕ=32°50′ N.; λ=83°38′ W.] City [ϕ=32°50′ N.; λ=83°38′ W.]

	[1 2]	[1 2]	[1 2]		[1]		[1]										[1]		[1]	[1]		[1]		[1]	[1]	
January	29.73	30.07	29.22		42.7		54.1					61.8	38.6	50.2	76	30		37		37	37		80		54	67
February	29.73	30.11	29.22		48.8		58.3					64.0	44.2	54.1	77	24		44		47	46		85		68	77
March	29.72	30.16	29.23		49.9		65.6					71.7	47.5	59.6	84	32		44		43	44		80		47	64
April	29.63	30.11	29.29		54.9		68.2					74.9	51.6	63.2	83	41		47		46	47		76		48	62
May	29.62	29.83	29.38		64.5		71.8					81.1	60.6	70.8	91	44		59		58	59		83		61	72
June	29.62	29.79	29.46		75.5		82.6					90.2	71.1	80.6	98	66		70		68	69		82		64	73
July	29.60	29.78	29.41		73.3		82.1					91.8	71.1	81.4	100	66		70		69	69		89		65	77
August	29.58	29.75	29.35		71.6		78.0					87.2	70.5	78.8	94	63		70		71	71		96		80	88
September	29.63	29.87	29.42		69.3		78.6					86.6	68.4	77.5	96	60		67		68	67		92		71	82
October	29.68	29.92	29.41		56.9		68.6					78.5	54.4	66.4	91	37		53		54	53		88		61	74
November	29.81	30.14	29.45		42.6		55.7					64.7	40.3	52.5	77	32		39		40	39		86		57	72
December	29.64	30.02	29.19		39.8		50.9					60.0	37.6	48.8	75	26		35		37	36		83		62	72
Year	29.66	30.16	29.19		57.5		67.9					76.0	54.7	65.3	100	24		53		53	53		85		62	73

MADISON, WIS.

Airport [ϕ=43°08′ N.; λ=89°20′ W.] City [ϕ=43°05′ N.; λ=89°23′ W.]

	[3 4]	[3 4]	[3 4]	[3]	[3]	[3]	[3]	[2]	[3]	[3]	[3]						[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]
January	28.88	29.30	28.22	25.6	23.5	27.6	27.6	24.2	22.6	25.8	26.2	32.4	20.1	26.2	53	1	21	21	22	23	22	81	88	79	83	83
February	28.93	29.42	28.12	18.6	14.5	20.7	22.7	17.0	13.5	18.9	20.9	29.3	9.7	19.5	47	−6	12	10	14	16	13	74	81	75	76	76
March	28.97	29.45	28.34	30.1	26.8	35.7	36.8	27.4	25.3	31.5	32.4	42.0	23.9	33.0	76	4	23	23	25	26	24	74	83	66	67	73
April	28.87	29.41	28.26	40.1	37.3	46.2	47.5	36.0	34.6	39.6	40.4	51.0	34.5	42.8	82	17	30	31	32	32	31	68	78	59	57	66
May	28.90	29.32	28.50	57.3	55.1	67.9	69.0	51.9	50.7	56.9	57.4	73.0	51.9	62.4	90	34	47	46	48	48	48	70	74	51	50	61
June	28.88	29.23	28.40	65.7	64.4	74.0	73.8	61.5	60.6	64.5	64.5	78.3	61.2	69.8	91	49	59	58	59	59	59	79	81	61	62	71
July	28.94	29.17	28.72	69.4	67.7	80.1	80.9	63.2	63.1	66.9	67.0	84.0	65.7	74.8	97	56	59	60	60	59	60	71	78	52	50	62
August	28.93	29.26	28.55	66.3	64.1	76.4	75.5	61.4	60.5	65.2	65.1	80.2	62.4	71.3	91	54	58	58	59	59	59	76	82	57	59	69
September	28.97	29.37	28.45	62.4	59.0	72.6	70.4	56.6	54.5	59.8	59.1	77.0	56.5	66.8	97	40	52	51	51	52	52	71	76	49	54	63
October	28.93	29.47	28.52	48.3	44.3	57.0	53.4	43.9	41.6	48.1	46.5	61.5	42.5	52.0	84	29	39	38	39	40	39	73	80	55	62	67
November	29.18	29.68	28.69	34.8	31.9	44.5	39.4	32.6	30.1	37.7	35.5	46.5	31.8	39.2	68	23	30	27	28	30	29	81	83	54	70	72
December	28.86	29.32	28.40	30.0	27.1	36.3	31.4	27.7	25.4	31.9	28.3	38.3	25.3	31.8	54	−1	24	22	25	23	24	78	82	66	70	73
Year	28.94	29.68	28.12	45.7	43.0	53.2	52.4	42.0	40.2	45.6	45.3	57.8	40.5	49.1	97	−6	38	37	39	39	38	75	80	60	63	70

MARQUETTE, MICH.

[ϕ=46°34′ N.; λ=87°24′ W.]

						[5]				[5]									[5]					[5]		
January	29.13	29.52	28.41		19.2	23.6	22.1		18.1	22.0	20.8	27.6	14.9	21.2	43	−1		15	18	18	17		83	79	82	82
February	29.16	29.69	28.09		11.9	17.6	16.0		11.0	16.0	14.9	24.0	6.6	15.3	41	−9		8	11	12	10		82	74	82	82
March	29.23	29.74	28.49		20.1	27.0	24.7		19.0	24.4	22.8	30.6	15.9	23.2	58	−8		16	20	19	18		84	73	78	81
April	29.14	29.55	28.57		31.7	37.7	35.8		29.7	34.1	32.9	42.4	27.2	34.8	81	13		26	29	29	28		80	73	77	78
May	29.15	29.62	28.58		48.8	54.7	51.3		45.3	48.3	46.0	61.0	40.9	51.0	86	31		42	42	41	41		78	66	71	74
June	29.11	29.48	28.61		58.6	63.0	62.3		56.3	59.5	58.4	69.0	50.8	59.9	83	40		54	57	56	55		87	82	81	84
July	29.17	29.42	28.84		65.1	73.0	70.3		59.4	62.7	61.5	77.1	57.8	67.4	89	48		56	56	56	56		72	58	61	67
August	29.15	29.55	28.75		62.6	70.1	67.1		58.5	62.4	61.6	73.1	58.4	65.8	86	52		56	58	58	57		80	67	75	77
September	29.20	29.63	28.69		53.8	62.5	58.7		50.7	55.6	54.3	66.1	50.1	58.1	98	35		48	50	51	50		81	68	77	79
October	29.12	29.63	28.62		41.6	48.7	44.5		39.1	42.8	40.9	51.2	37.5	44.4	77	25		36	37	37	36		80	66	76	78
November	29.39	29.89	28.83		33.1	40.1	35.9		31.0	35.6	33.3	42.4	30.2	36.3	62	23		28	30	30	29		80	66	78	79
December	29.05	29.52	28.54		28.6	32.3	29.9		27.1	29.6	28.1	35.5	25.0	30.2	57	4		24	25	25	25		84	74	82	83
Year	29.16	29.89	28.09		39.6	45.9	43.2		37.1	41.1	39.6	50.0	34.6	42.3	98	−9		34	36	36	35		81	70	77	79

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 370 feet.
[3] Airport data beginning with September.
[4] Pressure at airport adjusted to the old (city) station elevation of 974 feet.
[5] Local noon time January to June, inclusive.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

LYNCHBURG, VA.

[H=631 ft.; H_b=686 ft.; H_t=144 ft.; H_r=142 ft.; H_a=184 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.92	0.87	3.3	6.1	7.8	SW.	38	NW.	2	8	9	14	10	8	9	4	0	10	4	2	0	0	0	0	17	0	0
February	4.99	1.16	T	6.4	8.4	SW.	45	SW.	1	9	4	15	12	9	1	0	0	12	2	1	3	0	0	0	11	0	0
March	3.21	1.05	T	5.2	8.1	SW.	31	NW.	0	11	10	10	10	8	2	0	0	8	3	0	0	0	0	0	7	0	1
April	2.80	.76	.0	4.7	9.3	SW.	32	NW.	1	12	9	9	13	10	0	0	0	5	2	1	0	0	0	0	1	0	2
May	1.33	.49	.0	5.2	6.8	SW.	34	NW.	1	10	13	8	6	5	0	0	0	6	2	2	1	0	3	0	0	0	9
June	3.88	1.29	.0	5.7	6.5	SW.	26	NW.	0	9	7	14	13	9	0	0	0	8	0	0	1	0	9	3	0	0	11
July	6.05	1.33	.0	6.3	6.1	NW.	27	N.	0	8	9	14	16	14	0	0	0	11	6	0	0	0	6	0	0	0	14
August	7.66	4.04	.0	5.9	5.6	SW.	27	E.	0	9	11	11	10	9	0	0	0	12	5	1	1	0	9	0	0	0	9
September	1.21	.54	.0	4.0	5.3	N.	24	NW.	0	15	8	7	8	6	0	0	0	15	8	5	3	0	7	2	0	0	7
October	2.73	1.16	.0	4.5	6.1	W.	31	NW.	0	16	6	9	8	5	0	0	0	9	6	2	3	0	1	0	1	0	0
November	1.89	.80	1.2	4.5	7.3	NW.	22	NE.	0	13	7	10	6	5	4	4	0	7	3	1	1	0	0	0	5	0	0
December	2.11	.89	5.9	5.3	8.3	NW.	35	NW	2	11	9	11	9	7	7	4	0	5	3	2	1	0	0	0	15	0	0
Year	40.78	4.04	10.4	5.3	7 1	SW.	45	SW.	7	131	102	132	121	95	23	12	0	108	44	17	14	0	35	5	57	0	53

MACON, GA.

Airport [H=464 ft.; H_b=464 ft.; H_t=5 ft.; H_r=3 ft.; H_a=56 ft.] City [H=330 ft.; H_b=370 ft.; H_t=79 ft.; H_r=73 ft.; H_a=87 ft.]

January	2.98	1.06	0.0	5.2	7.4	NW.	24	SE.	0	13	5	13	11	9	0	0	0	5	----	----	1	0	0	0	4	0	1
February	11.44	2.12	.0	6.6	7.9	S.	25	S.	0	6	6	16	13	12	0	0	0	4	----	----	0	0	0	0	3	0	4
March	5.07	3.51	.0	5.1	7.3	NW.	25	SW.	0	12	8	11	8	7	0	0	0	2	----	----	0	0	0	0	0	0	4
April	1.44	.44	.0	5.0	8.1	NW.	29	S.	0	12	9	9	12	10	0	0	0	1	----	----	0	0	0	0	0	0	5
May	3.76	.93	.0	6.7	5.8	S.	30	NW.	0	4	12	15	13	11	0	0	0	2	----	----	0	0	2	0	0	0	8
June	2.62	.96	.0	7.2	6.2	S.	20	SW.	0	1	13	16	12	8	0	0	0	0	----	----	0	0	15	3	0	0	11
July	6.04	2.39	.0	6.2	5.9	S.	22	N.	0	4	20	7	11	10	0	0	0	2	----	----	0	0	20	9	0	0	11
August	9.29	2.82	.0	7.3	6.2	S.	24	S.	0	1	15	15	17	17	0	0	0	7	----	----	0	0	11	0	0	0	13
September	1.87	1.24	.0	6.0	5.7	N.	22	N.	0	5	15	10	7	5	0	0	0	2	----	----	0	0	12	2	0	0	3
October	T	T	.0	4.9	5.7	N.	24	NW.	0	8	15	8	0	0	0	0	0	11	----	----	1	0	1	0	0	0	0
November	.78	.59	.0	5.0	5.8	N.	15	N.	0	11	9	10	3	3	0	0	0	4	----	----	0	0	0	0	4	0	0
December	4.92	2.39	T	4.7	6.3	NW.	22	NW.	0	15	5	11	9	7	1	0	0	1	----	----	1	0	0	0	8	0	1
Year	50.21	3.51	T	5.8	6.5	NW.	30	NW.	0	92	132	141	116	99	1	0	0	41	----	----	3	0	61	14	19	0	61

MADISON, WIS.

Airport [H=857 ft.; H_b=866 ft.; H_t=27 ft.; H_r=2 ft.; H_a=39 ft.] City [H=938 ft.; H_b=974 ft.; H_t=70 ft.; H_r=62 ft.; H_a=78 ft.]

January	1.95	1.14	7.0	8.4	9.0	S.	29	N.	0	2	5	24	14	10	15	11	0	22	4	4	4	15	0	0	29	0	0
February	1.75	.60	7.3	6.3	10.1	NW.	29	NE.	0	8	6	14	8	7	14	6	0	16	1	1	1	17	0	0	28	4	0
March	1.25	.64	12.3	6.6	10.1	W.	28	W.	0	7	9	15	7	5	7	6	0	14	1	1	1	7	0	0	26	0	0
April	3.16	1.11	.2	6.9	10.0	NW.	29	S.	0	7	7	16	15	10	9	5	0	10	4	4	4	1	0	0	13	0	2
May	1.64	.85	.0	5.4	8.1	S.	25	NE.	0	11	9	11	7	7	0	0	1	8	4	3	2	0	0	0	0	0	6
June	2.33	.70	.0	6.7	7.3	S.	25	NW.	0	6	8	16	10	8	0	0	0	9	0	0	0	0	1	0	0	0	9
July	1.64	.85	.0	5.3	6.8	S.	27	NE.	0	8	15	8	5	5	0	0	0	3	0	0	0	0	6	1	0	0	6
August	2.61	.72	.0	6.2	6.2	S.	29	SE.	0	9	7	15	9	8	0	0	0	7	2	2	1	0	1	0	0	0	3
September	1.57	.38	.0	4.7	8.1	S.	21	S.	0	13	7	10	6	5	0	0	0	4	0	0	0	0	6	3	0	0	3
October	1.93	.49	T	5.9	9.1	S.	24	SE.	0	11	6	14	11	9	3	0	1	7	1	1	1	0	0	0	4	0	5
November	.29	.19	T	5.1	8.4	S.	24	S.	0	13	6	11	6	4	2	0	0	10	3	3	3	0	0	0	18	0	1
December	.28	.26	T	6.4	9.6	NW.	30	NW.	0	8	9	14	2	1	7	1	0	11	2	2	2	11	0	0	24	1	0
Year	20.40	1.14	26.8	6.2	8.5	S.	30	NW.	0	103	94	168	100	79	57	29	2	121	22	21	19	51	14	4	142	5	35

MARQUETTE, MICH.

[H=677 ft.; H_b=734 ft.; H_t=44 ft.; H_r=42 ft.; H_a=69 ft.]

January	2.21	0.84	14.6	8.5	8.1	S.	32	NW.	1	1	8	22	18	10	22	16	0	4	1	0	2	20	0	0	31	1	0
February	2.25	.49	25.5	6.6	9.4	NW.	40	SW.	1	5	9	14	16	11	19	16	0	1	0	0	0	22	0	0	28	9	0
March	2.71	1.56	29.0	6.9	8.3	NW.	25	NW.	0	4	12	15	11	7	16	10	0	3	1	0	2	17	0	0	29	4	0
April	3.04	1.31	4.7	6.0	7.5	NW.	26	NW.	0	8	11	11	11	9	9	7	0	5	1	0	4	5	0	0	18	0	0
May	3.08	1.07	.0	6.4	7.9	NW.	26	SW.	0	7	10	14	12	10	0	0	0	7	0	0	8	0	0	0	3	0	9
June	8.86	4.65	.0	6.2	7.1	NW.	25	NW.	0	7	12	11	13	12	0	0	1	7	1	0	1	0	0	0	0	0	6
July	1.13	.76	.0	4.0	7.0	NW.	24	S.	0	13	15	3	7	6	0	0	0	1	0	0	3	0	0	0	0	0	6
August	3.28	.85	.0	6.1	6.5	NW.	26	SW.	0	6	12	13	11	10	0	0	0	5	4	0	1	0	0	0	0	0	7
September	3.43	1.80	.0	6.1	8.5	SW.	28	S.	0	7	11	12	11	8	0	0	1	4	2	0	1	0	2	2	0	0	1
October	2.55	.89	9.1	7.2	8.6	NW.	36	SW.	1	2	12	17	16	10	10	8	1	5	0	0	2	1	0	0	10	0	2
November	.79	.73	8.2	5.8	6.1	W.	18	S.	0	8	10	12	4	3	7	2	0	2	0	0	0	1	0	0	21	0	0
December	2.58	1.09	15.7	7.5	9.3	NW.	28	SW.	0	3	10	18	14	10	13	11	0	4	0	0	0	13	0	0	24	0	0
Year	35.91	4.65	106.8	6.4	7.8	NW.	40	SW.	3	71	132	162	144	106	96	70	3	48	10	0	24	79	2	2	164	14	31

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MEDFORD, OREG. (Airport)

[ϕ=42°23′ N.; λ=122°52′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	28.73	29.10	28.15	36.1	34.7	37.1	42.1	35.2	33.8	35.5	38.9	44.2	32.2	38.2	65	23	34	33	34	35	34	92	94	88	78	88
February	28.77	29.30	28.21	36.6	33.8	37.8	46.0	34.9	32.8	35.5	40.0	47.6	30.8	39.2	62	24	32	31	32	32	32	85	91	81	62	80
March	28.66	29.03	28.31	46.0	38.6	48.7	61.8	41.7	36.9	42.9	48.4	63.8	35.3	49.6	83	25	37	35	37	35	36	71	87	64	40	66
April	28.68	29.03	28.39	52.3	42.8	57.7	69.9	45.6	40.2	48.4	52.8	72.9	40.2	56.6	90	33	39	37	39	36	38	61	81	51	33	57
May	28.61	28.80	28.35	56.1	46.4	63.2	71.6	49.3	44.4	52.6	55.2	74.9	44.5	59.7	95	33	43	42	44	41	42	63	86	50	38	59
June	28.61	28.83	28.42	60.2	50.8	66.9	76.9	51.6	47.1	54.4	57.4	78.9	48.7	63.8	95	39	44	44	44	42	43	57	77	45	31	53
July	28.58	28.83	28.35	70.4	58.6	75.0	88.9	57.7	53.1	60.2	63.4	90.4	56.7	73.6	108	47	48	49	50	45	48	48	71	43	25	47
August	28.55	28.76	28.32	70.3	58.1	75.7	91.0	57.2	51.7	59.8	63.2	93.0	55.0	74.0	104	43	47	46	48	43	46	45	66	40	21	43
September	28.58	28.88	28.30	61.9	51.5	66.5	81.2	53.0	47.5	55.0	59.1	83.5	48.2	65.8	98	37	46	44	46	41	44	57	76	50	28	53
October	28.70	29.04	28.19	49.9	43.2	53.3	66.9	47.1	42.3	48.3	54.1	68.2	40.2	54.2	82	32	44	41	44	44	43	82	94	71	47	73
November	28.76	28.95	28.35	40.5	34.8	43.5	56.0	38.4	33.7	40.4	47.3	58.5	30.7	44.6	68	22	36	33	37	38	36	85	92	79	52	77
December	28.67	28.98	28.03	41.1	39.6	40.7	45.7	39.8	38.4	40.0	43.4	49.4	35.6	42.5	62	25	38	37	39	41	39	91	93	94	84	90
Year	28.66	29.30	28.03	51.8	44.4	55.5	66.5	46.0	41.8	47.8	51.9	68.8	41.5	55.2	108	22	41	39	41	39	40	70	84	63	45	65

MEMPHIS, TENN.

Airport [ϕ=35°03′ N.; λ=89°59′ W.] City [ϕ=35°09′ N.; λ=90°03′ W.]

	[1 2]	[1 2]	[1 2]		[1]		[1]												[1]		[1]	[1]		[1]		[1]	[1]
January	29.64	30.08	28.86		42.5		49.9		38.7		43.9	54.1	39.7	46.9	72	30			34		36	35		71		62	66
February	29.64	30.13	29.10		41.1		48.6		38.1		43.0	54.0	36.5	45.2	74	22			34		36	35		76		65	70
March	29.66	30.08	29.04		49.9		60.5		44.9		50.2	64.1	47.9	56.0	80	32			39		39	39		68		49	59
April	29.57	30.10	29.10		53.1		64.2		48.1		54.1	67.3	51.1	59.2	82	35			43		45	44		69		52	60
May	29.53	29.81	29.13		65.0		74.3		60.4		64.0	78.5	63.2	70.8	88	51			57		57	57		77		58	67
June	29.54	29.76	29.29		73.9		82.6		70.2		72.8	86.4	71.9	79.2	93	63			68		68	68		84		63	73
July	29.55	29.74	29.40		74.1		86.5		71.7		75.9	89.4	74.2	81.8	95	67			70		71	71		89		62	76
August	29.52	29.69	29.28		70.8		85.0		68.8		74.8	88.5	71.9	80.2	95	64			68		70	69		91		63	77
September	29.58	29.80	29.34		67.8		82.9		64.8		71.2	89.3	70.9	80.1	99	51			63		66	64		86		57	72
October	29.65	30.02	29.42		54.3		67.0		52.0		60.3	76.3	56.8	66.6	89	35			50		56	53		86		68	77
November	29.83	30.21	29.42		40.1		48.8		38.4		44.5	57.8	41.7	49.8	76	31			36		40	38		88		72	80
December	29.61	29.95	29.15		40.0		45.5		37.8		42.1	53.1	40.1	46.6	75	26			35		38	36		82		76	79
Year	29.61	30.21	28.86		56.0		66.3		52.8		58.1	71.6	55.5	63.5	99	22			50		52	51		81		62	71

MERIDIAN, MISS.

Airport [ϕ=32°21′ N.; λ=88°40′ W.] City [ϕ=32°21′ N.; λ=88°40′ W.]

	[1 3]	[1 3]	[1 3]		[1]	[1]	[1]		[1]		[1]								[1]		[1]	[1]		[1]	[1]	[1]	[1]
January	29.71	30.15	29.05		43.9	55.5	54.2		41.6		48.1	62.2	40.2	51.2	77	30			39		41	40		82	58	64	73
February	29.68	30.15	29.11		46.4	55.9	56.8		44.3		50.1	64.0	42.0	53.0	81	24			42		43	42		85	62	63	74
March	29.70	30.15	29.29		50.2	66.1	65.1		48.1		54.0	71.6	47.8	59.7	85	33			46		43	45		86	45	49	67
April	29.62	30.09	29.22		54.9	68.4	67.8		51.9		56.6	73.8	52.0	62.9	83	34			49		47	48		81	48	50	66
May	29.57	29.78	29.29		63.7	77.8	76.1		61.5		66.2	82.2	61.6	71.9	92	44			60		60	60		87	54	61	74
June	29.59	29.81	29.28		73.2	86.0	81.2		71.4		73.7	89.1	71.0	80.0	94	68			71		70	71		92	59	71	82
July	29.61	29.78	29.46		73.6	88.4	82.2		72.8		76.3	92.3	71.9	82.1	99	69			73		74	73		97	60	78	87
August	29.56	29.77	29.33		70.5	87.1	82.1		70.0		75.0	90.3	70.8	80.6	96	66			70		72	71		98	60	72	85
September	29.62	29.80	29.34		67.2	85.9	78.4		66.8		72.4	88.5	67.7	78.1	96	51			66		70	68		98	56	75	87
October	29.69	29.88	29.53		52.5	76.3	65.2		51.5		59.9	79.6	54.3	67.0	90	35			50		56	53		93	48	73	83
November	29.83	30.16	29.48		39.3	62.4	52.5		37.9		47.6	64.6	40.7	52.6	78	26			36		42	39		90	47	69	80
December	29.66	30.02	29.12		38.4	59.1	48.9		37.5		44.6	61.5	39.7	50.6	78	23			36		40	38		93	51	72	82
Year	29.66	30.16	29.05		56.2	72.4	67.5		54.6		60.4	76.6	55.0	65.8	99	23			53		55	54		90	54	66	78

MIAMI, FLA

[ϕ=25°48′ N.; λ=80°12′ W.]

						[4]				[4]								[4]					[4]		
January	30.09	30.28	29.86		65.7	73.3	70.4		61.3	65.9	64.5	75.1	62.6	68.8	81	42		58	62	61	60		78	68	72	73
February	30.10	30.29	29.93		70.5	76.8	73.7		66.4	69.9	68.5	78.2	68.2	73.2	82	43		64	66	66	66		81	71	77	76
March	30.08	30.26	29.84		70.1	77.9	74.8		65.3	68.5	67.6	79.7	68.3	74.0	87	57		62	63	64	63		78	62	69	70
April	30.02	30.26	29.81		73.8	79.5	75.9		68.1	70.2	68.7	81.3	69.9	75.6	89	49		65	66	65	65		75	63	70	69
May	29.98	30.13	29.82		76.1	80.6	77.4		70.2	71.3	71.4	83.0	71.8	77.4	88	62		67	67	69	68		74	64	75	71
June	30.01	30.14	29.86		80.5	84.3	80.2		74.3	75.6	74.1	85.7	75.9	80.8	90	71		72	72	72	72		75	67	75	72
July	30.02	30.15	29.91	79.3	80.5	85.2	81.5	75.2	75.4	76.3	75.4	88.0	76.1	82.0	92	71	74	73	73	73	73	83	79	67	76	76
August	29.97	30.15	29.80	80.4	81.4	85.2	80.3	75.6	76.0	77.3	75.4	87.2	76.3	81.8	90	69	74	74	74	74	74	80	78	70	80	77
September	29.96	30.13	29.74	79.3	79.5	85.1	81.0	75.2	75.4	77.3	75.5	87.8	75.6	81.7	90	70	74	74	74	73	74	83	83	71	78	79
October	29.94	30.15	29.68	78.6	77.8	82.7	79.2	73.7	73.1	74.6	73.3	84.6	74.5	79.6	90	58	72	71	71	71	71	80	81	69	76	76
November	30.04	30.26	29.84		67.1	75.2	71.4		62.6	66.3	65.1	76.6	64.9	70.8	82	50		60	61	61	61		78	62	71	70
December	30.03	30.26	29.80		62.5	74.2	69.6		59.0	64.4	63.5	75.3	60.5	67.9	82	47		57	59	60	59		82	59	71	71
Year	30.02	30.29	29.68		73.8	80.0	76.3		68.9	71.5	70.2	81.9	70.4	76.1	92	42		66	67	67	67		78	66	74	73

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 399 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 375 feet.
[4] Local noon time January to June, inclusive.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MEDFORD, OREG. (Airport)

[H=1,314 ft.; H_b=1,329 ft.; H_t=29 ft.; H_r=26 ft.; H_a=58 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—															
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.92	0.60	2.4	8.9		N.				1	2	28	13	8	4	3	0	23	15	14	8	0	0	0	15	0	0
February	1.25	.26	4.4	7.6		NW.				2	9	17	11	10	10	4	1	11	14	3	3	0	0	0	17	0	0
March	1.52	1.07	T	4.8		NW.				13	5	13	6	5	4	0	0	2	2	1	1	0	0	0	8	0	0
April	.29	.16	T	6.2		NW.				7	9	14	5	2	1	0	0	0	0	0	0	0	1	0	0	0	1
May	1.22	.62	.0	4.9		NW.				11	9	11	9	6	0	0	0	1	0	0	0	0	2	1	0	0	4
June	.40	.23	.0	4.8		NW.				12	7	11	3	2	0	0	0	0	0	0	0	0	4	2	0	0	0
July	.34	.30	.0	2.5		NW.				22	5	4	3	2	0	0	0	0	0	0	0	0	17	11	0	0	0
August	T	T	.0	1.7		NW.				25	4	2	0	0	0	0	0	0	0	0	0	0	23	14	0	0	1
September	.26	.15	.0	2.9		NW.				19	7	4	4	3	0	0	0	1	1	1	1	0	9	4	0	0	1
October	2.15	.77	.0	4.9		S.				13	6	12	9	7	0	0	0	10	1	2	2	0	0	0	1	0	0
November	.06	.04	.0	5.4		SW.				8	12	10	3	1	0	0	0	14	10	9	5	0	0	0	20	0	0
December	6.71	2.14	.6	9.1		NW.				0	4	27	18	9	2	2	0	21	12	14	13	1	0	0	9	0	0
Year	16.12	2.14	7.4	5.3		NW.				133	79	153	84	55	21	9	1	83	55	44	33	1	56	32	70	0	7

MEMPHIS, TENN.

Airport [H=269 ft.; H_b=284 ft.; H_t=5 ft.; H_r=3 ft.; H_a=49 ft.] City [H=270 ft.; H_b=399 ft.; H_t=78 ft.; H_r=70 ft.; H_a=86 ft.]

January	9.72	2.97	0.0	5.5	9.1	SW.	29	SW.	0	13	3	15	12	10	0	0	0	3	0	0	1	0	0	0	5	0	2
February	10.07	2.79	T	6.4	9.2	E.	33	SW.	1	8	5	15	12	11	1	1	1	2	0	0	2	0	0	0	8	0	6
March	5.14	2.72	.0	5.3	8.6	SW.	34	SW.	1	12	8	11	6	6	0	0	0	2	2	1	0	0	0	0	0	0	4
April	7.34	2.77	.0	5.5	9.3	S.	32	N.	1	9	11	10	10	10	0	0	1	0	0	0	0	0	0	0	0	0	7
May	4.51	2.31	.0	5.8	6.9	SW.	29	SW.	0	8	11	12	9	8	0	0	0	0	0	0	0	0	0	0	0	0	10
June	4.05	1.07	.0	6.6	6.9	SW.	27	NW.	0	3	14	13	13	12	0	0	1	0	0	0	0	0	8	0	0	0	12
July	3.46	1.78	.0	4.3	6.8	SW.	28	NE.	0	12	13	6	9	7	0	0	0	0	0	0	0	0	12	3	0	0	6
August	2.23	1.74	.0	5.3	6.5	SW.	28	NE.	0	7	17	7	5	4	0	0	0	1	0	0	0	0	10	1	0	0	5
September	2.31	2.26	.0	3.0	7.0	S.	27	NW.	0	19	7	4	2	2	0	0	0	1	0	0	0	0	16	7	0	0	3
October	.94	.79	.0	3.1	8.2	SW.	25	NW.	0	20	6	5	4	3	0	0	0	0	0	0	0	0	0	0	0	0	1
November	2.18	.70	.0	5.6	7.0	N.	24	N.	0	11	5	14	8	6	0	0	0	2	0	0	0	0	0	0	3	0	0
December	2.90	1.63	T	5.7	8.4	SW.	27	NW.	0	11	6	14	8	6	1	0	0	3	1	0	0	0	0	0	6	0	1
Year	54.85	2.97	T	5.2	7.8	SW.	34	SW.	3	133	106	126	98	85	2	1	3	14	3	1	3	0	46	11	22	0	57

MERIDIAN, MISS.

Airport [H=293 ft.; H_b=310 ft.; H_t=4 ft.; H_r=4 ft.; H_a=40 ft.] City [H=343 ft.; H_b=375 ft.; H_t=67 ft.; H_r=60 ft.; H_a=92 ft.]

January	4.83	1.68	0.0	5.8	7.0	SW.	29	SW.	0	9	7	15	10	10	0	0	0	4	1	1	1	0	0	0	4	0	3
February	9.95	2.22	.0	6.1	7.8	S.	26	SW.	0	8	6	14	13	11	0	0	1	3	0	0	0	0	0	0	4	0	5
March	6.31	1.92	.0	3.9	6.6	NE.	23	SW.	0	16	7	8	9	6	0	0	0	1	0	0	0	0	0	0	0	0	4
April	2.37	.86	.0	5.0	7.2	S.	26	SW.	0	13	7	10	8	7	0	0	0	3	0	0	0	0	0	0	0	0	6
May	5.23	1.85	.0	6.2	5.4	S.	24	SE.	0	6	9	16	13	13	0	0	1	2	0	0	0	0	1	0	0	0	11
June	8.77	1.96	.0	7.5	5.5	S.	29	SW.	0	0	14	16	19	15	0	0	0	1	1	1	1	0	14	0	0	0	18
July	4.29	1.35	.0	5.7	5.0	SW.	24	N.	0	3	22	6	10	8	0	0	0	0	0	0	0	0	25	8	0	0	11
August	2.23	1.00	.0	5.1	5.1	SW.	22	NE.	0	10	15	6	6	6	0	0	0	0	0	0	0	0	23	3	0	0	8
September	2.14	.74	.0	4.3	5.2	E.	20	W.	0	14	9	7	9	6	0	0	0	0	0	0	0	0	16	4	0	0	4
October	.26	.25	.0	3.6	5.2	N.	17	N.	0	16	7	8	2	1	0	0	0	2	0	0	0	0	0	0	0	0	0
November	.74	.65	.0	5.0	5.1	N.	17	SW.	0	15	3	12	5	2	0	0	0	2	2	1	1	0	0	0	8	0	0
December	5.19	2.35	T	4.9	5.6	W.	23	W.	0	15	3	13	7	6	1	0	0	5	1	0	1	0	0	0	6	0	1
Year	52.31	2.35	T	5.3	5.9	SW.	29	SW.	0	125	109	131	111	91	1	0	2	23	5	3	4	0	79	15	22	0	71

MIAMI, FLA.

[H=11 ft.; H_b=25 ft.; H_t=124 ft.; H_r=117 ft.; H_a=168 ft.]

January	0.51	0.28	0.0	5.2	10.1	SE.	25	S.	0	12	8	11	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0
February	.38	.22	.0	4.9	11.3	SE.	25	S.	0	11	13	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0
March	1.32	1.26	.0	3.1	9.6	SE.	26	S.	0	20	7	4	5	3	0	0	0	0	0	0	0	0	0	0	0	0	2
April	1.19	.81	.0	5.0	10.7	SE.	31	SW.	0	13	10	7	4	4	0	0	0	0	0	0	0	0	0	0	0	0	3
May	8.91	3.11	.0	5.5	10.1	SE.	25	SE.	0	8	14	9	10	8	0	0	0	0	0	0	0	0	0	0	0	0	9
June	2.20	1.25	.0	5.4	8.2	SE.	28	SE.	0	11	10	9	11	7	0	0	0	0	0	0	0	0	1	0	0	0	8
July	10.25	3.30	.0	5.9	7.5	SE.	23	SW.	0	10	10	11	14	13	0	0	0	0	0	0	0	0	4	0	0	0	13
August	6.81	2.54	.0	7.0	7.5	SE.	29	S.	0	5	11	15	19	15	0	0	0	0	0	0	0	0	1	0	0	0	17
September	4.56	1.06	.0	6.5	6.6	SE.	23	NE.	0	1	16	13	17	15	0	0	0	0	0	0	0	0	1	0	0	0	17
October	14.42	5.46	.0	5.4	8.8	NE.	31	NE.	0	9	14	8	14	13	0	0	0	1	0	0	1	0	1	0	0	0	9
November	3.62	2.48	.0	6.1	12.8	NE.	33	NE.	1	6	13	11	10	7	0	0	0	0	0	0	0	0	0	0	0	0	1
December	3.22	2.66	.0	4.2	8.3	N.	26	SW.	0	15	9	7	5	4	0	0	0	3	1	0	0	0	0	0	0	0	2
Year	57.39	5.46	.0	5.4	9.3	SE.	33	NE.	1	121	135	109	119	96	0	0	0	4	1	0	1	0	8	0	0	0	81

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MILES CITY, MONT.

Airport [ϕ=46°26′ N.; λ=105°52′ W.] City [ϕ=46°25′ N.; λ=105°49′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean										Extremes		Mean										
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	In. (1 2)	In. (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	27.39	27.91	27.03		24.2	33.1	32.9		22.6	28.5	28.8	38.7	19.1	28.9	50	0		20	21	22	21		81	61	65	73
February	27.48	27.98	27.00		5.0	15.0	18.2		3.7	12.5	15.1	23.1	−1.0	11.0	47	−37		−2	5	7	2		72	62	59	65
March	27.50	28.02	27.15		25.7	40.8	43.6		23.7	33.1	34.3	46.7	22.4	34.6	75	−2		20	23	22	21		78	51	47	63
April	27.49	28.07	27.09		39.7	54.2	56.9		35.1	42.2	43.2	60.7	36.6	48.6	89	17		29	29	28	28		68	42	38	53
May	27.41	27.83	26.91		51.3	69.2	71.3		45.9	52.6	53.5	74.5	49.0	61.8	94	36		41	38	38	39		68	36	34	51
June	27.41	27.74	27.02		54.3	67.0	69.1		51.0	55.3	55.8	71.6	51.7	61.6	90	42		48	47	47	48		81	52	49	65
July	27.45	27.72	27.17	70.9	64.2	84.1	88.6	59.5	57.1	64.7	64.4	90.6	63.6	77.1	104	54	52	52	54	50	50	54	67	37	29	48
August	27.48	27.82	27.24	66.2	57.8	80.3	84.2	54.0	50.1	59.8	59.6	86.4	57.1	71.8	98	44	44	44	46	42	43	50	62	32	25	43
September	27.49	27.99	27.05	57.0	50.0	69.1	72.4	48.1	44.3	54.1	54.2	75.9	48.5	62.2	95	30	40	39	43	39	39	59	68	44	35	52
October	27.49	27.85	27.03	43.1	37.5	53.2	52.8	37.7	34.0	43.8	42.9	61.0	35.5	48.2	78	26	31	29	34	32	31	65	72	50	48	60
November	27.64	27.95	27.05	33.1	27.8	44.0	45.5	28.3	24.8	36.0	36.6	55.1	24.7	39.9	67	12	20	19	25	25	22	57	68	47	44	56
December	27.50	27.86	26.96	29.1	26.2	36.0	34.1	25.1	23.0	29.9	28.5	43.9	19.9	31.9	71	−13	19	17	21	20	19	66	70	58	60	65
Year	27.48	28.07	26.91	49.9	38.6	53.8	55.8	42.1	34.6	42.7	43.1	60.7	35.6	48.1	104	−37	34	30	32	31	30	58	71	48	44	58

MILWAUKEE, WIS.

Airport [ϕ=42°57′ N.; λ=87°54′ W.] City [ϕ=43°02′ N.; λ=87°54′ W.]

	(1 3)	(1 2)	(1 3)	(1)	(1)	(1 4)	(1)	(1)	(1)	(1 4)	(1)						(1)	(1)	(1 4)	(1)	(1)	(1)	(1)	(1 4)	(1)	(1)
January	29.20	29.64	28.50		26.9	30.0	30.5		25.3	28.0	28.6	34.7	22.6	28.6	54	2		22	24	25	24		79	78	79	79
February	29.26	29.74	28.42		19.4	24.2	25.0		17.7	21.5	22.7	32.0	14.4	23.2	53	0		13	14	17	15		74	64	69	69
March	29.29	29.78	28.63		30.6	37.5	36.7		28.0	32.6	32.5	42.5	27.2	34.8	76	8		23	25	26	25		73	60	66	66
April	29.18	29.74	28.63		39.2	45.8	46.0		35.5	39.5	39.6	51.5	35.9	43.7	85	19		30	31	32	31		70	58	59	62
May	29.22	29.62	28.78		52.7	60.3	60.6		47.6	51.8	51.7	67.6	48.2	57.9	90	36		43	44	44	44		70	59	58	62
June	29.18	29.52	28.68		64.4	69.4	69.5		59.4	61.2	61.2	77.3	58.7	68.0	93	46		56	56	56	56		75	65	65	68
July	29.25	29.49	29.00	66.5	67.8	77.3	75.1	62.3	63.2	66.0	65.2	80.4	65.9	73.2	95	60	60	60	60	59	60	80	78	57	61	69
August	29.24	29.58	28.85	65.6	64.2	75.9	73.4	61.9	61.3	66.1	65.5	79.7	64.2	72.0	90	55	60	60	60	61	60	82	86	62	68	74
September	29.28	29.68	28.82	61.5	59.2	71.5	67.8	56.5	55.7	59.9	58.3	76.7	58.3	67.5	99	39	53	53	52	52	52	76	81	54	59	68
October	29.24	29.76	28.77	48.7	46.3	57.0	52.5	44.6	43.1	47.9	46.9	61.8	44.5	53.2	83	31	40	40	39	41	40	74	79	54	67	68
November	29.50	29.98	28.96	36.3	34.0	43.9	39.7	33.6	31.8	37.5	35.6	47.9	34.4	41.2	68	24	30	28	29	30	29	77	79	57	68	70
December	29.17	29.61	28.73	31.6	30.1	35.6	32.4	29.0	27.8	31.6	29.5	39.3	28.4	33.8	56	2	24	24	25	24	24	73	76	65	71	71
Year	29.25	29.98	28.42		44.6	52.4	50.8		41.4	45.3	44.8	57.6	41.9	49.8	99	0		38	38	39	38		77	61	66	69

MINNEAPOLIS, MINN. (Airport)

[ϕ=44°53′ N.; λ=93°13′ W.]

	(5)	(3)	(5)																							
January	28.93	29.40	28.38	18.3	16.5	23.2	22.5	17.6	15.9	21.5	21.3	27.5	11.8	19.6	45	−10	16	14	17	18	16	88	89	77	83	84
February	28.99	29.48	28.18	7.6	4.4	13.6	13.6	6.6	3.9	12.0	12.2	20.4	−2.0	9.2	43	−25	3	1	7	8	5	80	85	74	75	78
March	29.04	29.49	28.46	26.5	21.6	34.4	34.3	24.8	20.6	29.7	30.3	39.3	19.4	29.4	78	−1	21	18	22	24	21	79	85	61	66	73
April	28.94	29.37	28.50	38.5	34.8	46.9	48.2	35.2	32.3	38.9	40.1	52.1	32.6	42.4	83	15	31	28	29	30	30	74	76	51	52	63
May	28.90	29.36	28.49	58.8	54.6	69.9	71.9	52.0	50.1	57.0	58.4	76.0	52.0	64.0	95	35	46	46	47	48	47	63	73	45	45	56
June	28.88	29.21	28.52	64.1	62.5	73.8	73.6	60.1	59.1	63.2	64.4	78.6	58.6	68.6	92	45	58	57	57	59	58	80	82	57	63	70
July	28.96	29.19	28.74	69.7	67.2	81.1	81.5	64.0	62.7	67.0	68.2	85.1	64.1	74.6	95	56	61	60	59	61	60	74	78	49	52	63
August	28.96	29.30	28.60	66.4	62.7	77.5	77.1	61.9	59.7	65.0	65.6	82.1	60.4	71.2	94	52	59	58	58	59	58	79	85	54	56	68
September	28.98	29.46	28.52	59.8	55.4	69.9	68.4	54.4	51.3	57.7	58.2	75.4	53.0	64.2	98	26	50	48	48	51	49	72	78	49	55	64
October	28.94	29.51	28.45	44.9	41.0	51.9	50.7	40.4	37.8	43.9	43.5	56.7	38.3	47.5	77	23	35	34	35	36	35	70	76	55	58	65
November	29.21	29.73	28.65	33.1	29.6	43.5	39.5	30.0	27.2	36.6	34.4	48.3	27.0	37.6	64	18	25	23	27	27	26	71	76	53	61	65
December	28.94	29.42	28.46	26.2	23.7	31.5	29.8	23.9	22.0	27.4	26.5	36.6	18.7	27.6	63	−4	20	19	20	21	20	77	81	64	70	73
Year	28.97	29.73	28.18	42.8	39.5	51.4	50.9	39.2	36.9	43.3	43.6	56.5	36.2	46.3	98	−25	35	34	36	37	35	76	80	57	61	68

MISSOULA, MONT.

Airport [ϕ=46°52′ N.; λ=114°00′ W.] City [ϕ=46°52′ N.; λ=114°00′ W.]

	(1 6)	(1 6)	(1 6)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January		27.18	26.16		31.1				28.6			40.1	27.6	33.8	60	11		25					77			
February		27.12	25.99		20.7				19.1			32.5	16.8	24.6	46	−12		16					81			
March		26.99	26.26		31.7				28.9			50.4	29.4	39.9	71	11		24					74			
April		27.20	26.35		39.5				35.2			61.0	36.9	49.0	86	22		30					68			
May		26.97	26.31		45.9				42.0			70.9	44.5	57.7	89	33		38					74			
June		26.88	26.19		47.9				44.4			69.2	46.5	57.8	94	37		41					79			
July	26.65	26.97	26.39	65.7	54.3	75.9	85.2	54.6	50.4	58.6	60.3	86.7	55.2	71.0	103	43	46	46	47	42	45	51	74	37	24	46
August	26.66	26.93	26.43	65.2	52.1	74.5	85.8	51.8	46.1	56.1	59.4	87.9	52.6	70.2	99	44	40	40	41	39	40	41	65	32	21	40
September	26.66	27.04	26.22	53.6	45.2	62.9	72.0	46.6	42.3	50.6	53.9	75.1	44.1	59.6	90	33	40	39	40	38	39	62	82	44	34	56
October	26.69	27.17	26.11	44.5	39.2	49.5	55.3	40.4	37.0	43.1	45.6	59.0	37.5	48.2	73	23	36	35	37	36	36	74	86	62	52	68
November	26.82	27.08	26.34	28.9	25.2	34.7	37.8	27.8	24.6	32.0	34.5	46.9	26.4	36.6	58	19	26	24	28	30	27	89	94	77	74	84
December	26.68	27.04	26.04	30.6	29.0	32.4	33.4	29.3	28.1	30.5	31.4	39.2	27.6	33.4	54	6	28	27	28	29	28	88	91	83	83	86
Year		27.20	25.99		38.5				35.6			59.9	37.1	48.5	103	−12		32					79			

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 2,371 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 681 feet.
[4] Noon local time, January to June, inclusive.
[5] Pressure at airport adjusted to the old (city) station elevation of 919 feet.
[6] Pressure at airport adjusted to the old (city) station elevation of 3,263 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MILES CITY, MONT.

Airport [H=2,629 ft.; H_b=2,634 ft.; H_t=5 ft.; H_r=3 ft.; H_a=28 ft.] City [H=2,351 ft.; H_b=2,371 ft.; H_t=48 ft.; H_r=41 ft.; H_a=55 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind				Number of days—																		
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.30	0.12	3.8	6.7	6.6	S.	29	NW.	0	3	14	14	8	2	14	6	0	1			0	7	0	0	31	1	0
February	.34	.19	5.5	7.5	6.5	S.	25	N.	0	3	7	18	7	3	16	7	0	1			0	17	0	0	28	16	0
March	.23	.11	2.6	6.0	6.6	S.	24	NW.	0	7	12	12	7	2	10	6	0	0			0	6	0	0	23	1	0
April	.94	.60	.6	5.7	8.3	NW.	32	NW.	1	10	8	12	8	4	6	4	1	0			0	1	0	0	8	0	1
May	1.35	.70	.0	4.9	7.1	S.	43	NW.	2	11	10	10	11	8	0	0	0	0			0	0	2	0	0	0	6
June	4.11	1.00	.0	6.8	6.9	W.	36	NW.	1	5	12	13	15	9	0	0	1	0			0	0	1	0	0	0	9
July	1.01	.38	.0	3.6	6.3	S.	31	W.	0	17	8	6	9	7	0	0	1	0			0	0	16	9	0	0	10
August	.50	.32	.0	4.1	5.8	S.	28	NW.	0	15	11	5	7	4	0	0	1	0			0	0	18	10	0	0	3
September	.62	.38	T	4.4	5.7	S.	22	N.	0	13	9	8	7	4	2	1	0	1			0	0	3	1	1	0	1
October	.06	.03	T	6.7	6.8	S.	31	NW.	0	4	14	13	4	0	1	0	0	0			0	0	0	0	6	0	0
November	.03	.03	.0	3.6	6.2	S.	36	W.	2	17	7	6	1	0	0	0	0	0			0	0	0	0	27	0	0
December	.38	.22	2.9	6.6	6.5	S.	35	NW.	1	4	14	13	7	3	6	6	0	0			0	7	0	0	25	2	0
Year	9.87	1.00	15.4	5.6	6.6	S.	43	NW.	7	109	126	130	91	46	55	30	4	3			0	38	40	20	149	20	30

MILWAUKEE, WIS.

Airport [H=679 ft.; H_b=698 ft.; H_t=33 ft.; H_r=29 ft. H_a=46 ft.] City [H=619 ft.; H_b=681 ft.; H_t=97 ft.; H_r=89 ft.; H_a=221 ft.]

January	1.60	0.49	15.7	8.4	12.5	W.	34	SW.	3	3	5	23	16	15	17	13	0	14	2	2	2	13	0	0	28	0	1
February	2.24	.88	5.8	6.1	14.7	W.	42	W.	6	8	8	12	10	9	12	6	0	5	0	0	1	13	0	0	28	1	0
March	1.54	.59	10.1	6.8	13.9	W.	36	W.	2	5	10	16	6	4	9	4	0	5	0	0	0	6	0	0	23	0	1
April	2.81	.96	.6	6.7	13.2	W.	31	SW.	0	6	9	15	11	10	8	3	0	7	2	1	0	0	0	0	9	0	1
May	1.40	.86	.0	4.6	12.1	SW.	32	N.	1	14	7	10	10	7	0	0	0	6	4	3	2	0	1	0	0	0	3
June	3.50	1.14	.0	6.0	10.8	W.	31	SW.	0	9	9	12	12	11	0	0	0	8	3	4	4	0	2	0	0	0	11
July	.51	.30	.0	4.2	10.4	SE.	28	E.	0	16	8	7	6	2	0	0	0	3	1	0	0	0	4	1	0	0	2
August	5.03	2.40	.0	4.7	9.8	W.	33	W.	1	13	10	8	8	7	0	0	1	6	1	0	1	0	0	0	0	0	3
September	1.53	.66	.0	3.9	12.4	N.	36	SW.	1	16	7	7	9	8	0	0	0	4	1	0	0	0	6	5	0	0	2
October	2.43	1.27	T	5.7	13.3	W.	34	SW.	2	10	8	13	13	9	1	0	0	5	3	2	2	0	0	0	3	0	3
November	.33	.12	T	5.5	12.1	W.	32	S.	1	10	8	12	6	4	2	0	0	4	0	0	0	0	0	0	9	0	0
December	.46	.32	.4	6.7	12.9	NW.	38	NW.	2	7	7	17	2	2	7	1	0	5	1	0	0	6	0	0	20	0	0
Year	23.38	2.40	32.6	5.8	12.3	W.	42	W.	19	117	96	152	109	88	56	27	1	72	18	12	12	38	13	6	120	1	27

MINNEAPOLIS, MINN. (Airport)

[H=830 ft.; H_b=838 ft.; H_t=32 ft.; H_r=29 ft.; H_a=61 ft.]

January	1.06	0.47	7.4	8.1	9.8	NW.	34	NW.	1	3	5	23	11	6	18	9	0	23	5	1	1	22	0	0	31	3	0
February	.88	5.6	11.9	6.1	11.5	NW.	34	SW.	5	10	3	15	8	6	13	8	0	10	1	0	0	21	0	0	28	19	1
March	.61	.32	6.0	5.5	11.2	NW.	33	N.	1	10	12	9	8	4	11	8	0	9	3	3	3	13	0	0	26	3	0
April	2.19	.69	4.8	6.8	12.6	NW.	40	NE.	4	6	6	18	11	7	8	7	0	3	1	0	0	2	0	0	16	0	0
May	3.55	1.70	.0	5.5	11.5	S.	44	S.	3	10	12	9	8	8	0	0	0	5	0	0	0	0	1	0	0	0	4
June	4.95	1.27	.0	6.3	11.1	S.	59	NW.	5	5	12	13	14	13	0	0	0	12	1	0	0	0	2	0	0	0	6
July	2.75	.99	.0	4.5	8.6	SE.	26	NW.	0	15	7	9	7	6	0	0	0	11	2	2	0	0	10	3	0	0	8
August	3.65	1.14	.0	4.9	8.1	S.	45	SE.	1	12	10	9	12	11	0	0	0	14	4	2	0	0	5	0	0	0	7
September	2.31	1.80	.0	4.8	10.4	S.	42	NW.	1	13	6	11	7	4	0	0	0	6	0	0	0	0	3	3	2	0	3
October	1.56	.64	.6	6.4	12.3	NW.	34	SE.	3	8	9	14	13	4	5	2	0	7	1	1	1	0	0	0	8	0	2
November	.02	.01	T	3.9	8.8	SW.	33	NW.	1	16	7	7	2	0	2	0	0	6	2	2	2	0	0	0	25	0	0
December	.97	.75	4.8	6.3	10.3	NW.	37	NW.	1	9	6	16	5	3	13	4	0	5	1	0	0	15	0	0	29	2	0
Year	24.50	1.80	35.5	5.8	10.5	NW.	59	NW.	26	117	95	153	106	72	70	38	0	111	21	11	7	73	21	6	165	27	31

MISSOULA, MONT.

Airport [H=3,184 ft.; H_b=3,189 ft.; H_t=4 ft.; H_r=3 ft.; H_a=28 ft. City [H=3,200 ft.; H_b=3,263 ft.; H_t=80 ft.; H_r=77 ft.; H_a=91 ft.]

January	0.59	0.16	5.5	8.6	5.9	W.	26	SW.	0	1	5	25	13	5	21	11	0	2	1	0	0	1	0	0	26	0	0
February	1.25	.52	15.8	9.0	7.2	W.	37	E.	2	1	3	24	11	5	23	10	0	2	0	0	0	8	0	0	27	4	0
March	1.03	.63	5.1	6.5	7.3	E.	31	E.	0	9	5	17	7	3	12	7	0	1	0	0	0	1	0	0	23	0	1
April	.83	.65	T	6.5	7.9	W.	29	E.	0	6	8	16	7	4	4	0	0	0	0	0	0	0	0	0	5	0	4
May	2.31	.93	.0	5.3	7.0	W.	33	NW.	1	8	15	8	10	8	0	0	1	0	0	0	0	0	0	0	0	0	5
June	2.14	.41	.0	7.1	6.9	W.	33	E.	1	5	8	17	16	13	0	0	1	0	0	0	0	0	2	0	0	0	5
July	.49	.44	.0	3.8	6.9	E.	31	NW.	0	17	8	6	2	2	0	0	0	0	0	0	0	0	13	7	0	0	5
August	.10	.07	.0	3.1	7.0	E.	37	E.	1	19	9	3	3	1	0	0	0	0	0	0	0	0	11	3	0	0	7
September	.88	.39	.0	4.3	6.7	SE.	32	E.	1	13	10	7	6	5	0	0	0	1	0	0	0	0	1	0	0	0	2
October	.86	.34	3.0	6.3	5.6	SE.	30	NE.	0	7	8	16	9	6	3	3	0	1	0	0	0	0	0	0	7	0	0
November	.14	.11	T	4.8	4.3	SE.	26	W.	0	13	9	8	2	1	1	0	0	13	5	1	1	1	0	0	25	0	0
December	1.94	.67	5.1	8.5	5.8	SE.	32	W.	1	2	5	24	14	9	11	7	0	3	2	0	0	7	0	0	23	0	0
Year	12.56	.93	34.5	6.2	6.5	W.	37	E.	7	101	93	171	100	62	75	38	2	23	8	1	1	18	27	10	136	4	29

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MOBILE, ALA.

Airport [ϕ=30°38′ N.; λ=88°04′ W.] City [ϕ=30°42′ N.; λ=88°02′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	30.06	30.47	29.54		50.9	60.2	57.9		47.9	52.4	52.3	65.0	46.7	55.8	78	37		44	44	46	45		80	58	68	74
February	30.03	30.48	29.60		51.9	60.2	59.0		49.7	54.4	54.5	65.8	47.6	56.7	78	29		47	48	50	48		85	68	74	79
March	30.05	30.50	29.71		55.6	68.2	65.6		52.7	57.4	57.4	71.5	53.1	62.3	85	40		50	47	50	50		82	52	61	71
April	29.97	30.41	29.69		59.7	71.8	69.4		56.3	60.6	60.9	75.0	57.3	66.2	83	40		53	52	55	54		81	52	62	71
May	29.92	30.11	29.70		68.7	78.7	75.8		65.5	68.2	67.8	81.5	66.2	73.8	89	52		64	62	63	63		84	59	68	76
June	29.93	30.15	29.60		75.7	84.5	80.3		73.3	75.0	74.1	87.9	73.2	80.6	94	69		72	71	72	72		89	65	76	82
July	29.94	30.12	29.77	77.2	76.4	86.9	82.6	74.2	73.8	76.8	75.8	90.2	73.7	82.0	98	67	73	73	73	73	73	87	89	64	74	81
August	29.90	30.12	29.71	76.1	75.1	86.1	80.8	73.5	73.3	75.4	74.6	89.1	72.6	80.8	94	69	72	73	71	72	72	88	92	62	76	84
September	29.94	30.12	29.64	75.6	73.0	85.0	80.3	72.3	70.9	73.6	73.6	87.5	71.4	79.4	95	60	71	70	68	71	70	85	90	59	73	82
October	30.01	30.19	29.86	66.1	62.1	77.2	72.4	62.9	60.0	64.8	65.0	79.9	60.3	70.1	88	41	60	58	57	60	59	83	88	51	66	77
November	30.15	30.47	29.79	49.1	45.9	64.9	56.8	46.4	44.2	54.6	52.2	66.9	47.1	57.0	81	34	44	42	45	48	45	83	88	51	73	81
December	30.01	30.33	29.46	47.9	46.2	61.9	54.2	46.2	45.0	53.4	50.6	64.5	45.2	54.8	75	32	44	44	45	47	45	88	92	57	77	84
Year	29.99	30.50	29.46		61.8	73.8	69.6		59.4	63.9	63.2	77.1	59.5	68.3	98	29		58	57	59	58		87	58	71	78

MODENA, UTAH

[ϕ=37°48′ N.; λ=113°54′ W.]

January	24.61	25.07	24.11	23.2	18.9	31.1	33.4	21.8	17.8	27.6	29.4	36.7	14.0	25.4	51	2	19	16	22	24	20	83	86	69	66	76
February	24.55	24.93	23.90	19.7	14.4	27.4	30.6	17.5	13.0	23.6	26.0	33.4	8.7	21.0	47	−4	13	10	16	18	14	72	78	62	58	67
March	24.60	24.86	24.21	36.0	29.7	46.9	50.3	32.3	27.3	37.6	39.0	53.5	26.7	40.1	70	4	27	23	26	25	26	70	76	45	40	58
April	24.60	24.94	24.21	45.4	38.1	58.2	62.8	37.0	33.0	43.2	44.6	66.1	34.1	50.1	77	22	26	26	25	23	25	49	63	31	26	42
May	24.56	24.74	24.34	52.4	43.2	66.0	69.1	41.7	36.6	47.9	48.6	72.2	40.4	56.3	86	30	29	28	30	28	29	44	56	28	23	38
June	24.56	24.80	24.24	59.2	49.4	74.2	78.8	43.0	38.8	50.7	51.7	81.3	46.3	63.8	93	29	24	26	28	25	26	27	41	20	15	26
July	24.66	24.85	24.49	67.8	58.0	82.2	84.5	50.5	46.4	57.4	57.3	88.9	55.3	72.1	98	47	34	34	38	35	35	32	44	23	21	30
August	24.67	24.79	24.51	66.7	58.0	82.1	83.8	52.9	49.6	58.7	58.7	88.3	55.3	71.8	96	48	42	43	42	40	42	44	59	27	24	39
September	24.68	24.96	24.42	55.5	51.2	66.6	70.6	50.1	47.3	53.8	55.3	73.2	48.3	60.8	86	38	46	44	44	44	44	72	78	49	44	61
October	24.68	25.00	24.26	42.7	37.1	56.6	60.6	36.3	33.4	43.3	44.5	64.3	33.1	48.7	73	25	28	28	29	27	28	57	71	36	29	48
November	24.74	24.90	24.49	31.9	26.6	48.4	52.4	27.6	23.9	37.4	39.5	57.2	23.5	40.4	69	14	20	19	23	23	21	61	70	38	34	51
December	24.70	24.98	24.34	29.3	25.9	42.2	45.6	26.0	23.9	34.1	36.1	51.1	21.1	36.1	63	7	21	20	23	23	22	69	79	46	43	59
Year	24.63	25.07	23.90	44.2	37.5	56.8	60.2	36.4	32.6	42.9	44.2	63.8	33.9	48.9	98	−4	27	26	29	28	28	57	67	40	35	50

MONTGOMERY, ALA.

Airport [ϕ=32°24′ N.; λ=86°14′ W.] City [ϕ=32°23′ N.; λ=86°18′ W.]

	(3 4)	(3 4)	(3 4)		(3)		(3)		(3)		(3)							(3)		(3)	(3)		(3)		(3)	(3)
January	29.88	30.27	29.29		46.6		55.8		44.0		48.4	62.7	42.9	52.8	75	33		41		40	40		80		58	69
February	29.86	30.26	29.35		49.0		58.3		46.7		51.7	65.9	44.9	55.4	82	27		44		54	44		83		63	73
March	29.87	30.31	29.47		52.8		65.9		49.3		54.3	71.5	50.4	61.0	84	37		46		43	44		77		48	63
April	29.79	30.26	29.46		56.0		67.9		52.3		57.7	75.3	53.5	64.4	84	39		49		49	49		78		54	66
May	29.75	29.96	29.46		66.0		74.6		62.8		65.4	82.4	63.7	73.0	90	51		61		59	60		83		63	73
June	29.76	29.96	29.60		74.9		80.9		72.1		73.2	89.2	72.2	80.7	97	68		71		70	70		88		71	79
July	29.77	29.95	29.63		74.1		82.7		72.0		74.0	91.7	73.0	82.4	99	70		71		70	71		90		68	79
August	29.73	29.95	29.49		71.6		78.9		70.5		73.8	87.7	71.5	79.6	95	64		70		72	71		95		80	87
September	29.79	30.00	29.53		69.1		78.7		67.6		72.3	87.8	69.9	78.8	94	60		67		70	68		92		74	83
October	29.85	30.07	29.65		56.3		67.4		54.8		60.0	79.6	58.0	68.8	90	40		53		54	54		90		64	77
November	29.99	30.26	29.66		42.0		55.0		40.6		47.9	65.6	44.6	55.1	77	34		39		40	40		90		59	75
December	29.82	30.18	29.30		40.9		51.5		39.0		44.5	61.5	41.6	51.6	77	28		37		36	36		86		58	72
Year	29.82	30.31	29.28		58.3		68.1		56.0		60.3	76.7	57.2	67.0	99	27		54		54	54		86		63	75

MOORHEAD, MINN.

Airport [ϕ=46°54′ N.; λ=96°48′ W.] City [ϕ=46°52′ N.; λ=96°44′ W.]

	(3 5)	(3 5)	(3 5)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	28.92	29.37	28.44		9.0	14.6	14.4		8.6	13.8	13.9	21.0	1.6	11.3	34	−23		7	12	13	11		93	88	92	91
February	29.02	29.52	28.33		−3.8	2.9	3.6		−4.0	2.4	3.2	9.6	−11.3	−0.8	40	−34		−5	0	2	−1		95	87	91	91
March	29.04	29.43	28.49		15.9	27.2	28.1		15.2	24.6	25.9	32.5	12.5	22.5	66	−9		13	20	22	18		90	76	79	82
April	28.95	29.35	28.30		32.5	45.2	47.6		30.8	38.2	39.7	50.8	29.8	40.3	81	9		28	30	30	29		84	57	54	65
May	28.85	29.31	28.44		51.1	70.3	72.6		46.6	55.7	56.2	75.8	48.5	62.2	101	28		42	43	42	42		71	41	36	49
June	28.84	29.10	28.40		58.1	70.0	71.5		55.2	59.8	60.5	74.6	54.3	64.4	95	43		53	53	53	53		84	57	55	65
July	28.90	29.16	28.60	66.9	63.2	82.7	83.6	61.3	59.6	66.1	66.9	84.9	60.6	72.8	102	48	58	57	56	57	57	74	82	43	44	61
August	28.90	29.13	28.68	65.7	59.5	79.6	80.6	59.0	56.3	63.7	63.7	83.2	57.8	70.5	94	44	54	54	54	53	54	70	83	44	41	60
September	28.92	29.48	28.48	55.7	49.7	69.0	67.9	50.1	46.3	56.0	55.4	73.8	48.1	61.0	95	24	45	43	45	45	44	69	78	45	48	60
October	28.91	29.49	28.47	40.3	36.7	47.2	45.1	36.3	33.7	40.6	39.5	51.5	33.7	42.6	79	13	31	30	32	33	32	72	77	58	66	68
November	29.14	29.69	28.55	29.4	25.9	41.8	38.5	26.6	24.1	35.1	33.3	46.9	22.9	34.9	66	9	22	21	25	25	23	72	79	52	59	65
December	28.94	29.39	28.38	23.4	20.5	29.0	26.1	21.2	19.0	25.5	23.3	34.5	15.8	25.2	65	−8	17	16	20	18	18	78	82	70	74	76
Year	28.94	29.69	28.30		34.9	48.3	48.3		32.3	40.1	40.1	53.3	31.2	42.2	102	−34		30	32	33	32		83	60	62	79

[1] Airport data beginning with November.
[2] Pressure at airport adjusted to the old (city) station elevation of 57 feet.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 218 feet.
[5] Pressure at airport adjusted to the old (city) station elevation of 940 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MOBILE, ALA.

Airport [H=26 ft.; H_b=29 ft.; H_t=5 ft.; H_r=3 ft.; H_a=38 ft.] City [H=10 ft.; H_b=57 ft.; H_t=86 ft.; H_r=78 ft.; H_a=161 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.64	0.60	0.0	5.3	10.4	S.	33	SW.	1	7	17	7	8	7	0	0	0	6			3	0	0	0	0	0	3
February	7.44	1.80	.0	7.0	11.7	S.	35	SW.	2	5	7	16	15	14	0	0	1	7			8	0	0	0	2	0	7
March	2.11	.71	.0	3.7	10.3	S.	31	S.	0	14	11	6	7	6	0	0	1	4			3	0	0	0	0	0	3
April	2.58	1.00	.0	4.1	11.0	S.	28	SW.	0	14	13	3	7	5	0	0	0	1			0	0	0	0	0	0	5
May	8.52	2.12	.0	6.2	10.1	SE.	28	NW.	0	5	13	13	13	11	0	0	0	0			0	0	0	0	0	0	7
June	9.12	4.61	.0	6.3	9.0	S.	32	S.	1	4	19	7	13	10	0	0	0	0			0	0	11	0	0	0	14
July	7.02	3.00	.0	5.8	7.7	S.	37	N.	2	5	18	8	15	13	0	0	0	3			0	0	15	6	0	0	19
August	8.81	2.52	.0	5.5	8.1	SW.	36	NE.	3	8	15	8	16	14	0	0	0	3			0	0	13	0	0	0	21
September	4.81	3.86	.0	4.8	8.5	NE.	28	NW.	0	12	9	9	9	7	0	0	0	0			0	0	9	0	0	0	8
October	.13	.12	.0	3.1	9.2	N.	33	NW.	1	21	7	3	2	1	0	0	0	5			1	0	0	0	0	0	0
November	.69	.60	.0	4.7	10.0	N.	47	E.	1	12	9	9	3	2	0	0	0	0			0	0	0	0	0	0	0
December	2.55	2.14	.0	4.8	8.9	NW.	33	E.	1	12	9	10	5	4	0	0	0	7			5	0	0	0	1	0	1
Year	56.42	4.61	.0	5.1	9.6	S.	47	E.	12	119	147	99	113	94	0	0	2	36			20	0	48	6	3	0	88

MODENA, UTAH

[H=5,460 ft.; H_b=5,473 ft.; H_t=10 ft.; H_r=3 ft.; H_a=46 ft.]

January	0.74	0.36	10.2	5.7	8.0	W.	30	SW.	0	10	9	12	7	6	10	7	0	3	1	0	0	5	0	0	31	0	0
February	.59	.25	14.1	5.0	10.2	SW.	38	SW.	3	11	10	7	9	6	13	9	0	0	0	0	0	12	0	0	28	4	0
March	.62	.18	2.5	4.5	9.4	SW.	30	SW.	0	10	13	8	9	6	4	1	1	1	0	0	0	0	0	0	24	0	4
April	.49	.21	3.3	4.5	10.5	SW.	34	S.	3	16	5	9	5	3	2	2	0	0	0	0	0	0	0	0	9	0	0
May	.77	.30	.1	4.7	10.2	SW.	35	SW.	2	13	8	10	10	6	1	1	3	0	0	0	0	0	0	0	1	0	8
June	.09	.06	T	2.7	12.0	SW.	44	SW.	4	19	8	3	2	1	1	0	0	0	0	0	0	0	5	0	1	0	1
July	.16	.11	.0	3.4	10.7	SW.	39	SW.	4	18	5	8	3	2	0	0	1	0	0	0	0	0	17	6	0	0	8
August	1.22	.78	.0	4.9	9.3	W.	30	NW.	0	7	19	5	8	4	0	0	1	0	0	0	0	0	10	3	0	0	12
September	3.24	.90	.0	5.3	8.6	SW.	31	SW.	0	14	4	12	11	8	0	0	0	0	0	0	0	0	0	0	0	0	2
October	.61	.34	2.4	2.2	9.6	W.	41	SW.	3	23	5	3	4	3	2	1	0	0	0	0	0	0	0	0	12	0	2
November	.22	.18	.0	4.0	7.6	W.	21	SW.	0	18	4	8	4	2	0	0	0	0	0	0	0	0	0	0	29	0	0
December	.08	.08	1.1	5.6	8.0	W.	25	NW.	0	9	10	12	2	1	2	2	0	0	0	0	0	2	0	0	29	0	0
Year	8.83	.90	33.7	4.4	9.5	SW.	44	SW.	19	168	100	97	74	48	35	23	6	4	1	0	0	19	32	9	164	4	37

MONTGOMERY, ALA.

Airport [H=221 ft.; H_b=237 ft.; H_t=5 ft.; H_r=3 ft.; H_a=42 ft.] City [H=201 ft.; H_b=218 ft.; H_t=92 ft.; H_r=90 ft.; H_a=105 ft.]

January	3.25	1.00	0.0	5.8	8.0	E.	25	SW.	0	10	6	15	9	8	0	0	0	2	2	1	1	0	0	0	0	0	1
February	7.51	1.76	.0	6.4	8.8	E.	28	SW.	0	8	5	15	16	13	0	0	0	5	1	0	0	0	0	0	2	0	6
March	5.63	3.55	.0	4.8	7.6	N.	25	S.	0	13	9	9	9	8	0	0	0	2	1	0	0	0	0	0	0	0	3
April	2.47	.62	.0	4.9	8.1	S.	21	W.	0	10	11	9	9	8	0	0	0	0	0	0	0	0	0	0	0	0	8
May	3.01	1.41	.0	6.6	6.6	SE.	20	SE.	0	6	8	17	12	10	0	0	0	1	0	0	0	0	0	0	0	0	10
June	5.35	3.12	.0	7.3	6.4	S.	21	E.	0	4	8	18	16	12	0	0	0	0	0	0	0	0	15	1	0	0	16
July	4.18	.80	.0	5.4	5.8	W.	21	NW.	0	7	16	8	13	10	0	0	0	0	0	0	0	0	21	6	0	0	12
August	15.58	7.22	.0	5.5	6.7	SW.	26	SE.	0	9	11	11	18	18	0	0	0	2	1	1	0	0	13	2	0	0	14
September	3.08	.88	.0	4.8	6.1	NE.	26	W.	0	15	2	13	9	6	0	0	0	3	2	1	0	0	12	0	0	0	8
October	.24	.17	.0	3.3	6.3	N.	18	N.	0	19	7	5	3	2	0	0	0	2	1	1	0	0	1	0	0	0	0
November	.62	.32	.0	4.2	6.2	N.	16	N.	0	16	3	11	3	3	0	0	0	2	2	0	0	0	0	0	0	0	0
December	3.23	1.54	.0	4.4	6.7	W.	26	SE.	0	16	5	10	6	5	0	0	0	2	1	1	0	0	0	0	1	0	1
Year	54.15	7.22	.0	5.3	6.9	N.	28	SW.	0	133	91	141	123	103	0	0	0	21	11	5	1	0	62	9	3	0	79

MOORHEAD, MINN.

Airport [H=895 ft.; H_b=899 ft.; H_t=5 ft.; H_r=28 ft.; H_a=35 ft.] City [H=904 ft.; H_b=940 ft.; H_t=50 ft.; H_r=43 ft.; H_a=58 ft.]

January	0.58	.25	5.7	8.3	7.9	S.	26	NW.	0	4	4	23	11	3	23	10	0	9	3	0	3	29	0	0	31	16	0
February	.69	.33	13.0	6.0	9.7	N.	24	N.	0	7	8	13	6	4	18	6	0	0	0	0	0	26	0	0	28	22	0
March	.23	.22	3.5	6.2	9.2	N.	22	NW.	0	8	10	13	3	1	10	2	0	5	2	1	1	15	0	0	28	9	0
April	.91	.49	1.3	6.4	9.6	N.	26	N.	0	6	10	14	10	4	11	5	0	3	0	0	0	3	0	0	17	0	1
May	.48	.23		5.2	9.6	S.	29	NW.	0	10	13	8	7	3	0	0	0	0	0	0	0	0	4	3	1	0	5
June	3.92	1.84		6.6	8.9	S.	24	NE.	0	1	19	10	12	9	0	0	0	6	0	0	0	0	2	1	0	0	4
July	.43	.19		4.2	7.7	S.	24	NW.	0	15	10	6	7	3	0	0	0	4	2	1	1	0	6	1	0	0	7
August	1.49	.60		4.5	8.1	S.	27	SW.	0	10	14	7	12	9	0	0	0	1	0	0	1	0	8	0	0	0	6
September	.59	.24		5.0	8.8	S.	26	NW.	0	12	8	10	7	3	0	0	0	1	0	0	0	0	3	1	4	0	2
October	1.43	.62	1.4	7.4	9.3	NW.	26	NW.	0	4	7	20	8	7	7	2	0	7	1	1	0	1	0	0	15	0	2
November	.09	.06	.1	4.4	7.9	S.	26	NW.	0	16	5	9	4	1	3	1	0	3	2	0	0	3	0	0	30	0	0
December	.39	.34	2.2	7.0	8.3	S.	29	NW.	0	6	9	16	4	1	16	4	0	0	0	0	0	15	0	0	30	4	0
Year	11.23	1.84	27.2	5.9	8.7	S.	29	NW.	0	99	117	149	91	48	88	30	0	39	10	3	6	92	23	6	184	51	27

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MT. WASHINGTON OBSERVATORY, N. H.

[ϕ=44°16′ N.; λ=71°18′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	23.31	24.02	22.48	4.3	5.2	6.9	4.5	3.2	3.6	5.5	3.5	14.4	−5.2	4.6	33	−36	−3	−4	0	−2	−2	76	73	78	81	77
February	23.41	23.96	22.86	9.0	7.6	8.8	8.3	8.2	6.7	8.2	7.8	19.6	−1.4	9.1	40	−30	4	3	6	5	4	86	85	90	89	88
March	23.43	23.77	22.88	7.5	6.3	10.2	7.4	6.8	5.8	9.7	6.8	16.9	−.7	8.1	37	−30	4	3	8	5	5	89	89	92	91	90
April	23.50	24.01	22.94	18.3	19.8	22.5	19.7	17.7	18.7	21.6	18.6	27.3	13.5	20.4	43	0	16	16	20	16	17	92	86	90	86	88
May	23.72	24.09	23.28	33.0	32.6	37.7	35.9	31.1	29.8	34.2	33.7	42.7	27.8	35.2	56	9	28	26	30	31	29	82	78	72	83	79
June	23.83	24.07	23.36	41.5	42.3	47.1	45.3	39.8	40.0	43.7	43.4	52.0	37.4	44.7	61	21	38	37	41	41	39	88	85	80	86	85
July	23.88	24.15	23.54	45.9	47.4	51.4	49.2	45.1	45.6	48.6	47.5	56.1	42.3	49.2	70	40	44	44	46	46	45	77	89	85	91	86
August	23.94	24.20	23.60	48.8	49.4	54.3	51.5	47.6	47.8	51.8	49.4	58.7	44.7	51.7	68	36	46	45	50	48	47	90	88	83	88	87
September	23.81	24.24	23.26	39.1	39.9	43.1	40.8	37.5	37.1	40.2	38.6	47.5	33.3	40.4	64	18	36	32	37	35	35	87	80	81	83	83
October	23.66	24.07	22.95	30.2	30.8	32.6	31.1	28.7	29.1	30.6	29.3	38.3	22.5	30.4	57	−5	26	24	28	26	26	88	86	85	84	86
November	23.59	24.09	22.95	17.5	15.8	18.6	17.2	15.1	13.8	16.6	15.1	24.0	10.1	17.0	36	−10	8	8	12	10	10	71	76	77	74	74
December	23.24	23.78	22.66	10.4	9.7	11.3	9.9	9.9	9.2	10.8	9.3	17.9	2.9	10.4	37	−23	9	7	10	8	8	92	91	93	92	92
Year	23.61	24.24	22.48	25.5	25.6	28.7	26.7	24.2	23.9	26.8	25.2	34.6	18.9	26.8	70	−36	21	20	24	22	22	85	84	84	86	85

NANTUCKET, MASS.

[ϕ=41°17′ N.; λ=70°06′ W.]

January	29.95	30.52	29.23	32.3	31.6	35.1	32.6	30.2	29.7	32.1	30.2	38.3	26.9	32.6	51	10	26	26	26	25	26	77	78	70	74	75
February	30.06	30.64	29.43	34.2	33.3	38.6	36.0	32.7	31.7	35.4	34.0	43.0	29.4	36.2	54	14	30	28	30	30	30	82	82	71	78	78
March	30.01	30.51	29.09	34.4	34.6	38.9	35.8	32.4	32.4	35.0	33.4	41.8	29.9	35.8	56	20	28	28	28	29	28	78	77	66	76	74
April	29.91	30.49	29.32	41.6	43.3	47.2	42.9	39.3	40.5	42.3	40.3	49.8	38.3	44.0	58	30	36	37	36	37	36	81	79	67	80	77
May	29.94	30.30	29.46	48.3	52.5	56.4	49.5	46.7	49.8	51.0	47.7	59.4	45.4	52.4	80	39	45	47	46	46	46	90	84	70	87	83
June	29.97	30.28	29.69	57.6	62.3	65.2	59.1	55.7	58.8	59.0	56.4	68.3	54.7	61.5	79	47	54	56	54	54	54	89	82	71	85	82
July	29.96	30.29	29.67	64.3	66.9	72.6	65.4	63.0	64.3	66.2	63.5	74.0	62.5	68.2	80	54	62	63	62	62	62	93	87	72	91	86
August	29.98	30.31	29.72	66.6	69.7	75.8	67.5	65.4	67.5	68.9	66.1	77.5	63.7	70.6	84	60	65	66	65	65	65	94	89	72	93	87
September	30.03	30.55	29.61	60.1	62.8	67.4	61.5	57.8	59.9	62.0	58.9	69.4	56.7	63.0	77	47	56	58	58	57	57	87	85	74	86	83
October	29.99	30.41	29.23	53.1	54.3	59.7	54.8	50.8	51.9	54.8	52.1	61.5	48.8	55.2	76	35	48	49	50	49	49	84	83	73	82	80
November	30.08	30.51	29.41	41.9	41.6	46.2	42.7	38.7	38.4	41.3	39.5	48.3	37.5	42.9	59	25	35	34	35	35	35	74	75	66	75	72
December	29.78	30.37	29.23	35.1	34.5	39.4	36.6	33.0	32.4	35.4	34.1	42.2	30.1	36.2	57	12	29	29	29	30	29	78	79	66	75	74
Year	29.97	30.64	29.09	47.5	49.0	53.5	48.7	45.5	46.4	48.6	46.4	56.1	43.7	49.9	84	10	43	43	43	43	43	84	82	70	82	79

NASHVILLE, TENN.

Airport [ϕ=36°07′ N; λ=86°41′ W.[City [ϕ=36°10′ N.; λ=86°47′ W.]

	(1 2)	(1 2)	(1 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.51	29.91	28.79		39.9		47.3		37.4		41.0	53.0	36.0	44.5	70	24		34		33	34		80		61	70
February	29.52	29.95	28.99		39.6		47.6		37.3		42.7	53.5	34.8	44.2	72	16		34		37	36		82		68	75
March	29.52	29.97	28.83		46.5		57.5		42.9		48.0	63.8	42.5	53.2	83	27		39		38	38		76		52	64
April	29.44	30.01	28.99		49.8		62.0		46.1		51.6	66.8	47.3	57.0	82	32		42		42	42		76		50	63
May	29.42	29.68	29.00		60.7		72.8		57.6		61.6	77.5	58.2	67.8	88	43		56		54	55		83		54	69
June	29.43	29.64	29.18		71.6		80.3		68.3		71.4	85.2	68.2	76.7	91	61		67		67	67		85		66	76
July	29.40	29.59	29.26	73.2	72.4	86.1	85.1	69.6	68.9	72.4	72.7	89.4	70.2	79.8	96	63	68	67	66	67	67	84	84	53	57	70
August	29.39	29.56	29.14	71.4	69.8	84.9	81.3	68.0	69.8	71.5	71.4	87.5	68.2	77.8	91	56	66	66	65	67	66	85	87	53	63	75
September	29.44	29.69	29.26	71.1	66.0	86.9	82.4	63.9	61.7	68.4	66.2	89.4	65.2	77.3	99	50	60	59	58	57	58	68	78	40	44	61
October	29.50	29.82	29.26	58.3	53.7	73.2	67.9	53.0	50.5	58.5	56.8	75.5	53.7	64.6	91	33	49	48	47	48	48	72	81	42	50	66
November	29.67	30.00	29.26	41.8	37.6	53.9	49.7	38.0	35.3	44.4	42.4	56.4	37.7	47.0	72	28	33	32	33	33	33	73	81	49	54	67
December	29.44	29.80	28.92	40.3	36.7	48.8	44.4	36.7	34.4	41.3	39.0	52.1	35.2	43.6	72	21	32	31	32	32	32	72	81	54	63	72
Year	29.48	30.01	28.79		53.7		64.9		50.8		55.4	70.8	51.4	61.1	99	16		48		48	48		81		57	69

NEW HAVEN, CONN.

Airport [ϕ=41°16′ N.; λ=72°53′ W.] City [ϕ=41°18′ N.; λ=72°56′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.90	30.39	29.14		27.6		30.3		25.3		27.7	35.4	22.6	29.0	52	6		20		22	21		73		70	72
February	29.98	30.57	29.22		30.3		36.4		27.8		32.8	42.3	25.6	34.0	63	8		22		26	24		72		67	69
March	29.95	30.48	29.26		32.2		37.4		29.4		32.9	43.4	28.8	36.1	66	11		24		24	24		70		61	66
April	29.82	30.35	29.19		42.3		47.5		38.5		41.8	52.9	38.7	45.8	67	28		33		34	34		70		62	66
May	29.85	30.21	29.37		57.1		61.8		51.2		54.1	69.2	50.8	60.0	89	37		46		47	46		67		61	64
June	29.87	30.16	29.60		66.7		69.0		60.8		62.4	76.5	59.6	68.0	86	51		57		58	57		72		70	71
July	29.86	30.16	29.51	65.6	68.8	79.4	73.1	63.2	64.4	68.3	67.1	81.5	64.5	73.0	91	55	62	62	62	64	62	86	79	57	74	74
August	29.87	30.19	29.64	69.7	71.0	80.2	74.3	67.6	67.5	70.8	69.7	82.6	67.9	75.2	92	60	66	66	66	68	66	90	84	64	80	80
September	29.94	30.43	29.51	59.8	60.6	70.8	64.6	57.3	57.6	62.2	60.0	73.4	55.8	64.6	87	44	55	55	56	57	56	86	83	62	77	77
October	29.91	30.32	29.19	50.4	49.7	59.1	54.2	48.1	46.9	52.2	50.2	62.6	45.6	54.1	87	31	46	44	45	46	45	84	80	63	75	76
November	30.04	30.46	29.40	36.0	34.6	46.5	39.7	32.8	31.3	38.5	34.8	48.6	32.9	40.8	64	22	27	26	27	27	27	70	69	46	60	61
December	29.73	30.33	29.16	30.4	30.3	38.4	33.6	27.8	27.8	33.5	30.3	41.2	27.1	34.2	57	7	22	23	25	23	23	71	72	58	66	67
Year	29.89	30.57	29.14		47.6		51.8		44.0		47.0	59.1	43.3	51.2	92	6		40		41	40		74		69	70

[1] Airport data beginning with July.

[2] Pressure at airport adjusted to the old (city) station elevation of 546 feet.

[3] Pressure at airport adjusted to the old (city) station elevation of 107 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

MT. WASHINGTON OBSERVATORY, N. H.

[H=6,267 ft.; H_b=6,274 ft.; H_t=5 ft.; H_r=3 ft.; H_a=35 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																		
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																					
January	4.90	1.28	25.6	7.5	58.3	NW.	136	NW.	29	5	7	19	16	16	18	15	0	2	0	0	24	28	0	0	31	21	0
February	7.62	1.50	34.0	8.3	69.7	W.	136	NW.	28	1	18	19	20	20	21	19	0	1	0	0	28	25	0	0	28	14	0
March	5.20	1.38	29.0	8.2	57.2	NW.	116	W.	31	4	4	23	25	20	25	24	0	1	0	0	29	29	0	0	31	17	0
April	8.79	1.58	39.8	8.4	47.2	W.	120	NW.	27	2	5	23	19	17	19	16	0	0	0	0	28	20	0	0	29	2	0
May	4.33	.99	1.5	6.8	33.0	NW.	95	NW.	24	5	12	14	14	12	10	4	1	2	0	0	23	5	0	0	18	0	0
June	6.40	.88	.0	7.7	32.1	NW.	95	W.	23	3	10	17	17	16	0	0	1	3	0	0	27	0	0	0	6	0	4
July	7.37	.82	T	7.9	22.4	W.	80	NW.	19	2	9	20	21	19	1	0	2	0	0	0	26	0	0	0	3	0	7
August	3.80	1.05	.9	7.9	20.5	W.	72	NW.	14	2	7	22	13	12	0	0	1	3	0	0	23	0	0	0	0	0	4
September	7.84	2.06	.0	7.3	35.8	W.	90	W.	29	5	5	20	16	16	0	0	1	1	0	0	27	1	0	0	16	0	4
October	9.51	1.75	9.8	7.7	40.0	W.	99	W.	28	4	7	20	19	17	9	8	0	0	0	0	27	9	0	0	21	2	1
November	2.04	.62	7.9	6.7	47.8	NW.	96	N.	27	7	7	16	8	7	11	8	0	2	0	0	18	26	0	0	30	4	0
December	6.63	1.20	28.4	8.0	57.8	NW.	120	NW.	31	5	2	24	18	15	19	17	0	3	0	0	29	29	0	0	31	12	1
Year	74.43	2.06	176.0	7.7	43.5	NW.	136	NW.	310	45	93	237	206	187	133	111	6	18	0	0	309	172	0	0	244	72	21

NANTUCKET, MASS.

[H=35 ft.; H_b=12 ft.; H_t=14 ft.; H_r=4 ft.; H_a=90 ft.]

January	5.89	2.54	7.9	6.8	15.7	W.	46	NE.	7	8	5	18	12	11	11	6	0	9	4	2	2	7	0	0	22	0	0
February	5.38	1.65	1.5	6.2	15.9	SW.	46	SW.	6	8	6	14	13	11	8	1	0	15	9	5	5	3	0	0	17	0	1
March	7.27	2.11	8.8	6.2	15.7	NW.	43	N.	7	10	6	15	14	13	9	5	0	12	7	4	4	3	0	0	21	0	2
April	3.52	1.43	.7	5.8	15.5	W.	43	SW.	6	8	12	10	11	10	4	3	0	14	5	4	4	0	0	0	3	0	0
May	1.36	.84	.0	5.8	15.2	SW.	46	NE.	3	10	9	12	8	6	0	0	1	17	7	6	5	0	0	0	0	0	4
June	2.94	1.40	.0	5.7	13.1	S.	34	NE.	1	11	7	12	8	6	0	0	0	18	10	10	9	0	0	0	0	0	2
July	2.29	.73	.0	4.0	13.2	SW.	35	NE.	1	9	10	12	9	8	0	0	0	19	18	17	17	0	0	0	0	0	3
August	4.41	2.14	.0	5.3	12.2	S.	36	NE.	3	12	7	12	8	7	0	0	0	27	19	19	17	0	0	0	0	0	1
September	1.08	.46	.0	5.0	14.0	SW.	35	N.	2	12	7	11	9	8	0	0	0	14	10	9	9	0	0	0	0	0	3
October	4.56	1.29	.0	5.9	15.5	SW.	39	NE.	5	9	9	13	12	10	0	0	0	19	7	5	5	0	0	0	0	0	3
November	1.19	.87	T	5.2	17.7	W.	45	SW.	10	11	12	7	3	2	3	0	0	5	0	0	0	0	0	0	3	0	0
December	2.05	.99	4.5	6.7	15.4	W.	41	N.	6	4	13	14	10	5	10	4	0	10	4	4	3	6	0	0	17	0	0
Year	41.94	2.54	23.4	5.7	14.9	SW.	46	NE.	57	112	103	150	117	97	45	19	1	179	100	85	80	19	0	0	83	0	19

NASHVILLE, TENN.

Airport [H=585 ft.; H_b=605 ft.; H_t=5 ft.; H_r=3 ft.; H_a=72 ft.] City [H=485 ft.; H_b=546 ft.; H_t=167 ft.; H_r=160 ft.; H_a=187 ft.]

January	6.80	2.42	0.1	6.0	10.5	SW.	36	W.	4	10	6	15	16	11	3	1	0	4	0	0	0	0	0	0	10	0	3
February	8.87	2.14	T	6.6	10.9	S.	42	SE.	4	6	7	15	13	11	3	1	0	6	4	3	2	1	0	0	11	0	4
March	4.83	1.76	T	5.5	10.2	SW.	41	NW.	2	9	9	13	11	10	2	1	0	3	2	1	0	0	0	0	4	0	5
April	3.96	1.35	.0	6.2	10.5	S.	37	SW.	2	6	12	12	13	10	0	0	0	0	0	0	0	0	0	0	1	0	7
May	1.98	.80	.0	6.1	7.8	S.	28	NW.	0	7	8	16	12	10	0	0	0	4	4	1	0	0	0	0	0	0	9
June	4.85	1.09	.0	6.4	7.5	SW.	42	NW.	1	3	17	10	12	12	0	0	0	2	1	0	0	0	4	0	0	0	12
July	3.11	1.70	.0	5.1	6.5	W.	31	SW.	0	8	15	8	10	7	0	0	0	2	1	1	0	0	14	4	0	0	9
August	1.87	.69	.0	5.5	6.6	W.	33	SE.	1	8	13	10	10	6	0	0	0	3	3	3	3	0	5	0	0	0	8
September	.95	.56	.0	3.3	7.0	S.	31	W.	0	19	7	4	3	3	0	0	0	0	0	0	0	0	17	7	0	0	2
October	1.13	.58	.0	3.7	8.5	SW.	28	NW.	0	19	6	6	6	5	0	0	0	0	0	0	0	0	1	0	0	0	1
November	1.48	.89	T	5.7	6.9	NW.	26	NW.	0	9	9	12	5	5	1	0	0	2	2	2	1	0	0	0	7	0	0
December	2.68	.82	T	5.3	8.9	W.	25	NW.	0	12	7	12	8	7	4	1	0	1	1	0	0	0	0	0	14	0	0
Year	42.51	2.42	.1	5.4	8.5	S.	42	NW.	14	116	116	133	119	97	13	4	0	27	18	11	6	1	41	11	47	0	60

NEW HAVEN, CONN.

Airport [H=6 ft.; H_b=13 ft.; H_t=5 ft.; H_r=4 ft.; H_a=39 ft.] City [H=23 ft.; H_b=107 ft.; H_t=74 ft.; H_r=67 ft.; H_a=153 ft.]

January	4.02	1.63	8.0	6.7	9.9	N.	31	W.	0	7	9	15	12	10	10	7	0	9	1	0	0	12	0	0	22	0	0
February	6.46	1.56	5.7	6.0	9.4	N.	40	S.	1	8	8	12	13	9	7	6	0	12	3	1	3	2	0	0	22	0	1
March	5.66	1.25	9.6	5.6	9.9	N.	31	NW.	0	10	8	13	14	12	10	4	0	12	4	2	2	2	0	0	20	0	1
April	5.14	1.99	.2	6.7	9.9	N.	27	SW.	0	6	10	14	15	12	5	1	0	14	5	1	1	0	0	0	5	0	3
May	1.04	.36	.0	5.5	8.5	S.	30	N.	0	6	17	8	5	5	0	0	0	6	1	1	2	0	0	0	0	0	4
June	2.86	1.13	.0	5.7	8.6	S.	29	N.	0	7	12	11	9	8	0	0	0	7	2	3	1	0	0	0	0	0	3
July	.52	.30	0	5.1	8.2	S.	22	S.	0	9	19	3	8	3	0	0	0	7	1	0	0	0	2	0	0	0	4
August	7.46	2.69	.0	5.9	8.7	S.	27	E.	0	9	11	11	9	7	0	0	0	13	2	1	1	0	1	0	0	0	5
September	2.33	.77	.0	5.1	8.4	S.	25	NW.	0	12	8	10	10	8	0	0	0	9	1	1	0	0	0	0	0	0	6
October	5.46	1.79	.0	5.5	9.0	N.	25	N.	0	11	9	11	13	9	0	0	0	14	6	3	3	0	0	0	3	0	4
November	1.70	1.69	T	4.1	10.1	N.	40	N.	1	18	7	5	2	1	1	0	0	7	0	0	0	0	0	0	13	0	0
December	3.71	1.41	4.6	6.1	9.5	NW.	31	NW.	0	8	10	13	9	6	8	3	0	10	0	0	0	3	0	0	21	0	0
Year	46.36	2.69	28.1	5.7	9.2	N.	40	N.	2	111	128	126	119	90	41	21	0	120	26	13	13	19	3	0	106	0	31

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

NEW ORLEANS, LA.

Airport [ϕ=30°02′ N.; λ=90°02′ W.] City [ϕ=29°57′ N.; λ=90°04′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	30.06	30.50	29.47	55.5	52.6	62.2	59.3	52.6	50.2	55.7	54.5	67.0	51.1	59.0	80	40	49	48	50	50	49	81	84	66	75	76
February	30.02	30.53	29.60	56.5	55.6	63.4	60.6	54.2	53.5	57.1	55.9	68.9	51.5	60.2	82	35	52	51	52	52	52	85	87	68	74	78
March	30.06	30.47	29.74	60.9	59.0	69.5	67.8	57.1	56.2	60.3	59.6	74.6	57.5	66.0	84	46	54	54	53	53	54	79	83	58	63	71
April	29.97	30.36	29.67	63.6	61.3	72.6	71.1	59.9	55.4	62.8	63.0	76.9	60.0	68.4	85	42	57	56	56	58	57	80	85	58	64	72
May	29.91	30.09	29.66	70.0	69.2	78.0	76.1	67.0	66.7	69.8	68.8	82.3	67.5	74.9	88	60	65	65	65	65	65	86	88	68	71	78
June	29.93	30.14	29.72	76.1	76.4	85.4	83.8	73.7	74.1	76.3	75.9	89.3	74.5	81.9	95	70	73	73	73	73	73	89	90	66	70	79
July	29.94	30.11	29.71	77.1	78.1	85.4	83.3	74.7	75.5	77.4	76.4	91.1	76.0	83.6	99	71	74	74	74	74	74	89	89	71	74	80
August	29.91	30.10	29.71	77.0	77.1	85.3	82.7	74.4	74.9	76.2	75.8	90.6	74.8	82.7	96	71	73	74	72	73	73	89	91	67	74	80
September	29.94	30.10	29.62	76.6	75.3	84.6	81.1	73.6	73.2	74.8	74.5	88.4	74.3	81.4	94	60	72	72	71	72	72	87	90	64	74	79
October	30.00	30.16	29.89	68.2	66.5	76.8	72.9	64.0	63.7	66.2	65.4	80.3	64.7	72.5	89	49	61	62	60	60	61	79	85	56	67	72
November	30.14	30.50	29.82	56.6	53.3	64.0	61.1	52.1	50.5	55.8	55.5	68.0	52.5	60.2	81	42	48	48	49	50	49	74	82	60	70	72
December	30.02	30.34	29.42	54.0	52.0	60.8	59.0	51.4	50.1	54.5	53.4	66.9	50.3	58.6	79	40	49	48	49	48	48	84	87	67	70	77
Year	29.99	30.53	29.42	66.0	64.7	74.0	71.6	62.9	62.0	65.6	64.9	78.7	62.9	70.8	99	35	61	60	60	61	61	84	87	64	70	76

NEW YORK, N. Y.

[ϕ=40°43′ N.; λ=74°00′ W.]

						(3)				(3)									(3)					(3)		
January	29.67	30.12	29.02	----	31.0	33.7	33.2	----	27.9	29.6	29.4	38.9	25.7	32.3	56	6	----	22	22	22	22	----	67	61	63	64
February	29.75	30.32	28.96	----	33.0	39.2	39.5	----	29.8	33.9	34.4	45.9	28.9	37.4	67	14	----	24	24	26	25	----	68	56	58	61
March	29.71	30.24	29.07	----	34.9	40.7	40.5	----	31.7	35.3	35.5	46.9	30.8	38.8	70	18	----	26	26	27	26	----	68	57	60	62
April	29.59	30.08	29.03	----	44.6	50.6	49.3	----	39.8	42.8	43.3	55.0	40.7	47.8	83	27	----	33	33	36	34	----	66	52	62	60
May	29.62	29.94	29.11	----	58.5	67.6	65.0	----	52.1	56.8	55.5	72.5	54.9	63.7	92	41	----	46	48	47	47	----	65	51	56	57
June	29.64	29.94	29.33	----	67.6	74.2	71.3	----	61.0	62.8	62.0	78.8	62.9	70.8	89	57	----	56	55	56	56	----	69	54	61	61
July	29.63	29.92	29.28	----	69.7	78.2	75.3	----	64.6	67.3	66.6	81.3	66.9	74.1	90	58	----	61	61	61	61	----	76	57	64	66
August	29.63	29.95	29.40	----	72.8	80.3	76.5	----	67.6	70.1	68.9	83.5	70.2	76.8	91	60	----	65	64	65	65	----	77	62	69	69
September	29.71	30.20	29.23	----	62.9	71.1	68.0	----	58.9	61.9	61.4	75.5	59.3	67.4	88	50	----	56	55	57	56	----	79	58	69	69
October	29.68	30.12	29.06	----	52.7	58.9	58.1	----	48.8	51.5	51.5	64.4	48.3	56.4	86	33	----	44	44	45	44	----	74	60	64	66
November	29.81	30.18	29.28	----	39.5	46.3	44.9	----	34.6	38.4	37.3	50.4	36.0	43.2	65	28	----	27	27	26	27	----	60	47	47	51
December	29.51	30.10	29.01	----	34.1	38.5	37.4	----	30.6	33.5	32.7	43.1	29.4	36.2	59	12	----	24	25	24	24	----	66	57	58	60
Year	29.66	30.32	28.96	----	50.1	56.6	54.9	----	45.6	48.7	48.2	61.4	46.2	53.7	92	6	----	40	40	41	41	----	70	56	61	67

NORFOLK, VA.

[ϕ=36°51′ N.; λ=76°17′ W.]

January	29.98	30.44	29.27	43.1	40.4	49.8	45.7	39.1	37.6	42.7	40.7	53.1	37.3	45.2	72	26	34	34	34	34	34	70	77	57	65	67
February	30.05	30.57	29.43	46.3	44.8	54.3	49.3	43.0	42.3	46.8	45.1	59.5	40.2	49.8	76	23	38	39	38	39	38	74	80	56	71	70
March	30.00	30.51	29.28	48.8	46.6	56.3	52.4	44.0	42.9	47.2	45.8	61.8	42.9	52.4	84	32	38	38	37	39	38	69	74	52	63	64
April	29.89	30.35	29.48	53.8	53.4	64.8	59.8	49.6	49.1	52.5	51.7	68.4	49.1	58.8	87	36	45	44	40	43	43	74	73	45	59	63
May	29.92	30.18	29.49	61.4	63.0	74.1	69.1	57.4	58.2	60.9	60.1	77.2	58.4	67.8	92	45	54	55	52	54	54	78	75	48	62	66
June	29.91	30.15	29.63	72.2	74.6	82.8	77.5	68.1	69.4	70.6	69.6	85.6	68.9	77.2	94	63	66	67	64	66	66	82	78	55	69	71
July	29.90	30.12	29.60	72.4	74.3	82.7	77.2	68.6	69.5	71.4	70.9	84.7	69.9	77.3	93	63	67	67	66	68	67	83	79	58	74	74
August	29.88	30.16	29.61	74.5	75.7	84.3	78.0	71.7	71.9	73 2	72.3	86.4	72.1	79.2	94	63	70	70	68	70	70	88	84	60	77	77
September	29.96	30.35	29.65	70.1	71.0	79.9	73.8	66.4	66.8	68.9	68.3	81.7	67.9	74.8	96	60	64	64	63	65	64	82	81	58	76	74
October	29.97	30.40	29.38	60.8	60.0	69.8	63.6	57.0	56.9	59.8	57.9	72.5	56.1	64.3	92	44	54	54	52	54	54	79	83	58	72	73
November	30.10	30.43	29.73	46.7	45.2	54.5	50.6	42.4	41.8	45.3	44.4	57.0	43.1	50.0	73	35	37	38	34	37	36	71	75	52	63	65
December	29.87	30.42	29.43	42.2	39.1	48.8	45.0	38.0	36.7	41.1	39.6	52.1	36.6	44.4	69	21	32	33	31	32	32	68	79	52	63	66
Year	29.95	30.57	29.27	59.9	57.3	66.8	61.8	53.8	53.6	56.7	55.5	70.0	53.5	61.8	96	21	50	50	48	50	50	76	78	54	68	69

NORTHFIELD, VT.

[ϕ=44°10′ N.; λ=72°41′ W.]

January	29.00	29.56	28.21	----	13.2	20.1	16.4	----	11.9	18.1	15.2	26.5	5.3	15.9	53	−28	----	9	14	12	11	----	84	76	84	84
February	29.07	29.67	28.26	----	15.9	23.2	22.5	----	14.9	21.1	20.8	32.0	6.6	19.3	56	−15	----	13	16	17	15	----	88	74	80	84
March	29.07	29.55	28.38	----	17.1	27.9	25.6	----	16.3	24.6	23.2	32.6	11.3	22.0	47	−14	----	16	17	18	17	----	89	63	71	80
April	28.96	29.54	28.51	----	33.3	41.2	37.7	----	31.5	36.0	33.7	44.4	27.0	35.7	59	13	----	29	28	27	28	----	83	61	67	75
May	29.02	29.37	28.42	----	49.1	61.4	57.2	----	44.5	50.4	49.1	65.8	38.4	52.1	84	24	----	40	39	41	40	----	70	46	57	64
June	29.03	29.32	28.68	----	58.6	69.3	65.9	----	54.3	58.4	58.8	74.2	48.4	61.3	87	35	----	51	50	54	52	----	77	53	66	71
July	29.03	29.35	28.56	----	63.6	----	69.3	----	59.9	----	62.0	79.2	53.5	66.4	91	40	----	58	----	60	59	----	81	----	74	78
August	29.06	29.35	28.76	----	61.9	----	69.1	----	59.8	----	64.3	80.9	54.3	67.6	88	44	----	59	----	62	60	----	89	----	78	83
September	29.08	29.57	28.64	----	51.3	----	56.8	----	48.9	----	52.8	70.3	42.2	56.2	93	24	----	47	----	50	48	----	85	----	79	82
October	29.05	29.42	28.36	----	41.0	53.0	46.2	----	39.0	45.5	42.7	56.3	34.6	45.4	82	18	----	36	37	39	38	----	84	58	76	80
November	29.18	29.59	28.63	----	23.9	37.8	30.6	----	22.0	31.9	26.6	40.6	20.4	30.5	54	5	----	18	22	22	20	----	80	53	69	74
December	28.84	29.44	28.21	----	18.1	25.6	21.9	----	17.6	23.3	20.6	29.1	13.8	21.4	47	−17	----	15	18	18	17	----	86	74	84	85
Year	29.03	29.67	28.21	----	37.2	----	43.3	----	35.0	----	39.2	52.7	29.6	41.2	93	−28	----	33	----	35	34	----	83	----	74	78

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 53 feet.
[3] Noon local time.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

NEW ORLEANS, LA.

Airport [H=6 ft.; H_b=30 ft.; H_t=50 ft.; H_r=44 ft.; H_a=66 ft.] City [H=9 ft.; H_b=53 ft.; H_t=76 ft.; H_r=71 ft.; H_a=84 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	2.24	0.81	0.0	5.6	7.6	SE.	23	SE.	0	11	5	15	8	6	0	0	0	4	2	2	2	0	0	0	0	0	4
February	4.20	1.69	.0	7.0	9.0	SE.	25	SW.	0	5	7	16	12	10	0	0	1	3	2	2	1	0	0	0	0	0	5
March	1.20	.68	.0	4.1	7.8	NE.	18	NE.	0	14	11	6	6	4	0	0	0	3	2	2	0	0	0	0	0	0	3
April	3.05	2.01	.0	5.2	7.9	SE.	22	NE.	0	7	14	9	6	6	0	0	0	6	1	0	0	0	0	0	0	0	3
May	12.72	3.39	.0	6.5	6.0	SE.	18	NE.	0	7	7	17	18	15	0	0	0	0	0	0	0	0	0	0	0	0	12
June	6.38	2.19	.0	6.6	6.0	SE.	21	SW.	0	1	17	12	14	13	0	0	0	0	0	0	0	0	10	2	0	0	11
July	4.21	1.49	.0	5.7	5.7	SW.	19	NE.	0	7	15	9	13	10	0	0	0	0	0	0	0	0	19	7	0	0	18
August	5.68	1.09	.0	6.4	5.8	SW.	21	NE.	0	3	15	13	16	16	0	0	0	0	0	0	0	0	20	1	0	0	18
September	2.48	1.12	.0	6.0	6.3	NE.	16	NE.	0	7	12	11	14	11	0	0	0	0	0	0	0	0	13	0	0	0	9
October	.17	.11	.0	3.6	7.1	NE.	18	NE.	0	18	8	5	2	2	0	0	0	4	4	4	4	0	0	0	0	0	0
November	3.38	2.58	.0	4.1	7.3	NE.	20	NE.	0	16	4	10	4	4	0	0	0	3	1	1	1	0	0	0	0	0	0
December	2.74	1.57	.0	4.4	5.1	W.	22	NW.	0	15	9	7	7	6	0	0	0	10	6	5	5	0	0	0	0	0	1
Year	48.45	3.39	.0	5.4	6.8	SE.	25	SW.	0	111	124	130	120	103	0	0	1	33	18	16	13	0	62	10	0	0	84

NEW YORK, N. Y.

[H=10 ft.; H_b=314 ft.; H_t=415 ft.; H_r=398 ft.; H_a=454 ft.

January	3.80	1.49	9.5	6.9	15.6	NW.	63	NW.	12	7	6	18	13	10	9	6	0	14	1	1	1	8	0	0	23	0	2
February	5.97	1.74	3.9	6.2	16.1	NW.	69	SW.	13	7	7	14	11	9	8	5	0	8	8	8	8	2	0	0	17	0	2
March	4.81	1.12	4.4	6.4	15.6	NW.	57	NW.	11	6	10	15	12	12	6	3	1	15	5	4	4	0	0	0	17	0	1
April	3.90	1.45	T	6.8	15.6	NW.	56	NW.	13	4	11	15	15	13	4	1	2	11	4	3	3	0	0	0	5	0	5
May	.56	.15	.0	5.2	12.5	W.	35	W.	5	13	9	9	6	5	0	0	0	7	0	0	0	0	1	0	0	0	7
June	3.98	1.80	.0	5.8	12.8	SE.	43	NW.	3	7	14	9	11	8	0	0	0	11	3	2	2	0	0	0	0	0	9
July	.44	.27	.0	5.6	12.1	S.	30	NW.	0	7	13	11	6	3	0	0	0	8	2	1	1	0	0	0	0	0	6
August	4.37	3.00	.0	6.2	11.1	S.	41	S.	2	6	14	11	12	11	0	0	0	3	1	0	0	0	2	0	0	0	9
September	1.21	.41	.0	4.7	12.9	SW.	40	NW.	4	12	9	9	10	7	0	0	0	13	4	2	2	0	0	0	0	0	4
October	3.96	1.75	.0	5.7	14.4	NW.	53	NW.	9	9	10	12	11	9	0	0	0	15	6	6	4	0	0	0	0	0	2
November	1.47	1.46	T	4.6	15.7	NW.	53	NW.	12	13	9	8	2	1	3	0	0	2	0	0	0	0	0	0	5	0	0
December	1.22	.34	3.8	6.3	18.1	NW.	60	NW.	15	8	9	14	8	5	9	3	0	7	2	1	1	2	0	0	18	0	0
Year	35.69	3.00	21.6	5.8	14.4	NW.	69	SW.	99	99	121	145	117	93	39	18	3	114	36	28	26	12	3	0	85	0	47

NORFOLK, VA.

[H=11 ft.; H_b=91 ft.; H_t=80 ft.; H_r=73 ft.; H_a=125 ft.]

January	3.93	1.01	9.4	6.1	10.0	W.	34	NW.	2	9	6	16	9	8	2	2	0	14	2	0	0	0	0	0	9	0	0
February	5.52	1.10	.0	6.4	10.8	SW.	36	N.	2	8	3	17	10	9	0	0	0	11	1	0	0	0	0	0	6	0	2
March	2.40	.64	3.2	6.3	10.8	NE.	32	W.	3	10	4	17	10	8	2	1	0	8	0	0	0	0	0	0	2	0	2
April	4.26	.97	.0	5.3	11.8	SW.	33	W.	4	12	9	9	12	10	0	0	0	7	2	0	0	0	0	0	0	0	6
May	1.53	.79	.0	5.7	10.0	SW.	27	NW.	0	10	8	13	6	5	0	0	0	7	0	0	0	0	4	0	0	0	5
June	6.51	2.25	.0	6.6	8.9	SW.	33	W.	1	8	7	15	12	12	0	0	0	7	0	0	0	0	11	0	0	0	7
July	12.40	5.00	.0	6.7	8.2	SW.	41	NW.	1	5	10	16	16	11	0	0	0	8	0	0	0	0	5	0	0	0	10
August	9.20	2.69	.0	6.9	8.3	SW.	33	NW.	1	5	12	14	15	12	0	0	0	2	0	0	0	0	10	0	0	0	7
September	.56	.40	.0	6.0	8.2	E.	24	NE.	0	8	11	11	3	3	0	0	0	4	1	0	0	0	3	1	0	0	2
October	5.04	2.38	.0	5.4	9.4	SW.	26	N.	0	12	8	11	7	7	0	0	0	13	2	0	0	0	2	0	0	0	1
November	3.14	1.43	.0	4.9	10.4	N.	32	NE.	1	14	5	11	7	6	0	0	0	5	0	0	0	0	0	0	0	0	0
December	1.15	.46	3.3	5.6	10.0	W.	32	NW.	1	9	9	13	8	6	1	1	0	7	1	0	0	0	0	0	9	0	0
Year	55.64	5.00	15.9	6.0	9.8	SW.	41	NW.	16	110	92	163	115	97	5	4	0	93	9	0	0	0	35	1	26	0	42

NORTHFIELD, VT.

[H=840 ft.; H_b=876 ft.; H=12 ft.; H_r=3 ft.; H_a=60 ft.]

January	1.90	0.76	20.1	6.8	7.0	N.	26	SW.	0	5	12	14	12	8	20	10	0	2	0	0	0	21	0	0	29	12	0
February	3.04	.99	15.2	7.5	8.0	SW.	31	S.	0	5	6	17	12	10	18	11	0	0	0	0	0	14	0	0	28	9	1
March	2.12	.58	17.3	6.6	7.9	SW.	30	SW.	0	5	11	15	18	11	19	12	0	1	1	1	1	14	0	0	30	7	1
April	3.87	.93	13.7	7.7	7.1	SW.	27	S.	0	2	11	17	16	13	12	8	1	4	1	0	0	0	0	0	22	0	2
May	2.52	.80	.0	5.5	7.2	SW.	22	SW.	0	9	15	7	11	8	0	0	0	2	0	0	1	0	0	0	13	0	3
June	3.57	1.07	.0	5.8	6.7	SW.	23	S.	0	7	14	9	11	10	0	0	0	6	0	0	1	0	0	0	0	0	3
July	1.57	.47	.0	5.7	5.9	SW.	24	SW.	0	7	14	10	13	9	0	0	0	3	1	0	2	0	1	0	0	0	7
August	2.69	1.19	.0	5.5	6.0	SW.	21	SE.	0	8	15	8	9	9	0	0	1	7	3	4	2	0	0	0	0	0	7
September	2.53	.79	T	6.1	7.2	SW.	28	S.	0	6	12	12	11	8	1	1	0	7	1	2	1	0	2	0	6	0	4
October	2.94	1.17	T	7.2	8.0	SW.	27	S.	0	4	8	19	11	8	4	1	0	7	3	3	3	0	0	0	14	0	3
November	.83	.72	2.9	5.8	7.1	N.	30	SW.	0	7	13	10	7	2	10	3	0	0	0	0	0	2	0	0	27	0	0
December	2.35	.83	9.4	7.7	7.2	N.	25	SE.	0	5	3	23	20	13	18	15	0	4	0	1	1	19	0	0	28	4	0
Year	29.93	1.19	78.6	6.5	7.1	SW.	31	S.	0	70	134	161	151	109	102	61	2	43	10	11	12	70	3	0	197	32	31

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

NORTH HEAD, WASH.

[ϕ=46°16′ N.; λ=124°04′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.83	30.40	29.00	44.3	43.6	44.3	44.8	43.1	43.0	43.5	43.5	47.6	40.6	44.1	52	34	42	42	43	42	42	91	95	94	90	92
February	29.89	30.55	29.07	40.3	39.9	41.1	42.6	39.5	38.9	39.8	40.9	45.0	30.0	41.0	54	28	38	38	38	39	38	93	92	90	88	90
March	29.86	30.21	29.37	43.7	42.7	44.9	46.6	42.6	41.5	43.5	44.5	49.2	40.5	44.8	61	34	41	40	42	42	41	91	91	90	85	88
April	29.92	30.32	29.62	48.0	46.9	51.2	51.7	45.4	44.2	47.3	47.4	55.2	44.7	50.0	74	39	43	41	43	43	42	84	82	77	74	78
May	29.85	30.09	29.53	51.2	50.0	54.3	55.4	49.0	47.8	51.1	51.4	58.4	48.5	53.4	80	44	47	46	48	48	47	86	86	82	77	82
June	29.86	30.06	29.39	53.2	52.4	55.8	56.3	51.6	50.9	53.4	53.4	58.8	51.4	55.1	63	47	50	49	51	51	50	90	90	86	83	87
July	29.86	30.13	29.54	55.4	54.4	58.1	58.8	54.3	53.6	55.9	56.2	61.0	53.4	57.2	66	50	53	53	54	54	54	93	95	88	86	90
August	29.83	30.04	29.60	55.6	56.1	60.0	59.5	54.6	54.2	56.6	56.8	64.1	53.4	58.8	86	49	54	52	54	55	54	94	90	84	86	88
September	29.83	30.01	29.49	55.5	54.2	57.8	58.0	54.0	53.0	55.3	55.7	62.2	52.5	57.4	77	49	53	52	54	54	53	92	93	87	87	90
October	29.89	30.37	29.44	52.3	51.5	54.1	54.6	50.7	50.2	52.2	52.1	58.1	49.2	53.6	74	41	49	49	51	50	49	91	92	89	86	89
November	29.90	30.24	29.52	51.1	50.3	52.0	52.5	49.2	48.2	49.4	50.5	56.1	48.0	52.0	67	42	47	46	47	48	47	88	86	84	87	87
December	29.74	30.18	29.03	47.7	48.0	48.9	48.9	46.2	46.5	47.2	47.2	52.4	44.7	48.6	61	34	44	45	45	45	45	89	90	88	88	89
Year	29.85	30.55	29.00	49.9	49.2	51.9	52.5	48.4	47.7	49.6	50.0	55.7	47.0	51.3	86	28	47	46	48	48	47	90	90	87	85	88

NORTH PLATTE, NEBR.

Airport [ϕ=41°08′ N.; λ=100°45′ W.] City [ϕ=41°08′ N.; λ=100°45′ W.]

	[1 2]	[1 2]	[1 2]		[1]		[1]		[1]		[1]						[1]		[1]	[1]		[1]		[1]	[1]
January	26.98	27.53	26.30		25.0		36.5		23.4		30.4	43.6	21.6	32.6	62	5		21		23	22		82		61	72
February	27.01	27.48	26.37		15.5		28.8		14.3		23.8	36.1	11.0	23.6	60	−10		12		15	13		84		57	70
March	27.06	27.45	26.66		29.7		48.9		28.0		38.7	54.2	26.8	40.5	79	7		26		27	26		84		46	65
April	27.03	27.49	26.62		39.2		58.1		35.9		45.3	61.8	36.7	49.2	91	16		32		32	32		76		42	59
May	26.98	27.42	26.65		53.0		74.4		49.4		57.9	78.3	52.0	65.2	92	38		46		46	46		80		40	60
June	26.98	27.36	26.47		58.4		78.1		54.2		61.9	82.5	56.8	69.6	101	43		52		52	52		80		44	62
July	27.04	27.34	26.63		65.0		89.7		59.9		67.7	93.7	65.6	79.6	106	59		56		56	56		76		34	55
August	27.06	27.39	26.76		58.7		83.7		56.3		65.1	88.1	58.8	73.4	98	46		55		54	55		87		40	63
September	27.08	27.58	26.68		53.7		78.7		48.2		58.0	84.3	53.2	68.8	100	35		44		43	43		71		30	51
October	27.05	27.49	26.61		38.2		58.7		34.9		46.3	67.9	38.0	53.0	86	25		32		34	33		78		41	60
November	27.26	27.69	26.78		24.2		43.7		22.5		35.2	56.4	25.4	40.9	73	15		19		23	21		82		43	62
December	27.08	27.42	26.76		22.7		35.9		20.5		29.4	48.3	21.8	35.0	76	−7		17		19	18		78		54	66
Year	27.05	27.69	26.30		40.3		59.6		37.3		46.6	66.3	39.0	52.6	106	−10		34		35	35		80		44	62

OKLAHOMA CITY, OKLA.

Airport [ϕ=35°24′ N.; λ=97°36′ W.] City [ϕ=35°26′ N.; λ=97°33′ W.]

	[1 3]	[1 3]	[1 3]	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	28.71	29.29	28.20		38.3	48.7	47.6		35.2	41.2	40.8	54.5	35.4	45.0	71	22		31	32	32	32		75	55	57	62
February	28.72	29.24	28.11		30.2	41.6	41.8		27.1	34.6	34.8	48.1	26.7	37.4	71	9		21	23	24	23		68	51	52	57
March	28.73	29.13	28.15		44.7	61.6	61.1		40.5	49.4	48.7	67.4	41.1	54.2	83	23		35	36	34	35		70	42	41	51
April	28.67	29.15	28.12		50.8	66.5	66.2		46.2	53.1	52.7	71.7	48.6	60.2	91	29		41	41	40	41		71	42	42	52
May	28.61	28.97	28.26		62.4	79.4	78.2		58.1	64.4	63.7	83.2	61.0	72.1	99	50		55	55	55	55		78	47	47	57
June	28.64	28.95	28.24		70.6	83.9	83.9		67.0	71.3	70.8	88.5	68.3	78.4	98	55		65	65	64	65		83	56	54	64
July	28.67	28.91	28.49	77.8	73.5	90.7	93.5	68.7	67.1	72.2	72.9	96.1	73.3	84.7	107	66	64	64	63	63	64	64	72	42	39	54
August	28.66	28.87	28.39	75.9	71.5	88.6	89.8	68.0	65.8	70.9	71.2	93.5	70.7	82.1	101	60	64	63	62	62	63	68	75	44	41	57
September	28.70	29.00	28.32	75.4	67.2	86.9	88.2	61.7	58.6	65.5	65.2	93.6	66.9	80.2	105	40	52	53	52	50	52	46	60	32	28	42
October	28.74	29.15	28.40	61.3	56.0	73.5	72.4	52.6	50.1	57.8	57.6	79.6	54.7	67.2	94	37	45	44	45	46	45	56	66	38	40	50
November	28.97	29.36	28.54	45.9	41.0	54.2	52.6	41.1	37.9	45.4	43.8	59.2	40.0	49.6	79	21	35	34	36	35	35	67	76	52	54	62
December	28.75	29.16	28.35	41.4	37.8	51.2	48.4	35.8	33.4	40.8	39.6	56.5	36.1	46.3	77	17	28	27	28	28	28	61	67	45	51	56
Year	28.71	29.36	28.11		53.7		68.6		48.9	55.6	55.2	74.3	51.9	63.1	107	9		44	45	44	45		72	46	46	55

OMAHA, NEBR. (Airport)

[ϕ=41°18′ N.; λ=95°54′ W.]

	[4]	[4]	[4]																							
January	28.76	29.34	28.20	30.6	28.0	36.9	35.3	28.2	26.2	32.5	31.8	42.2	23.8	33.0	65	4	24	23	26	26	25	77	81	64	71	73
February	28.85	29.40	28.09	18.4	15.3	24.9	24.4	16.6	13.9	21.1	21.2	31.9	8.3	20.1	49	−12	12	10	13	14	12	74	77	58	63	68
March	28.86	29.30	28.38	35.6	31.5	44.0	44.7	32.5	29.4	37.1	38.4	50.0	28.5	39.2	83	9	28	26	28	31	28	75	81	57	61	68
April	28.78	29.29	28.39	47.5	43.4	54.6	57.3	42.0	39.6	45.8	46.8	61.5	40.7	51.1	86	22	36	35	34	36	35	65	72	46	48	58
May	28.72	29.18	28.32	64.2	59.6	76.7	77.8	56.2	54.2	60.8	60.3	82.2	50.6	69.4	99	42	50	50	49	47	49	62	71	40	36	52
June	28.70	29.10	28.34	69.2	66.7	79.3	79.6	64.4	63.0	66.3	66.7	84.8	63.3	74.0	100	53	62	61	59	60	60	78	82	52	53	66
July	28.76	29.07	28.51	73.4	71.0	87.6	88.4	67.9	66.8	71.9	73.0	92.8	68.3	80.6	110	59	65	64	64	66	65	76	81	48	49	64
August	28.79	29.03	28.48	68.9	65.2	81.3	81.5	63.4	61.3	66.8	67.1	86.0	63.2	74.6	96	51	60	59	59	59	59	75	81	48	49	63
September	28.81	29.24	28.34	66.0	59.3	80.4	79.1	56.6	53.2	61.0	61.6	86.4	57.2	71.8	104	32	50	48	47	49	48	58	69	34	37	50
October	28.79	29.40	28.32	50.5	45.9	62.4	60.9	44.5	41.5	50.1	49.4	68.4	42.5	55.4	87	27	38	36	38	38	38	64	70	43	45	56
November	29.07	29.55	28.47	36.9	32.6	48.9	45.3	32.8	30.0	40.3	38.1	53.3	30.0	41.6	72	16	26	26	29	28	27	66	75	48	52	60
December	28.83	29.22	28.49	30.3	28.5	38.7	37.0	27.6	26.2	32.3	31.5	44.3	24.1	34.2	72	1	23	22	23	24	23	75	79	57	61	68
Year	28.81	29.55	28.09	49.3	45.6	59.6	59.3	44.4	42.1	48.8	48.8	65.3	42.2	53.8	110	−12	40	38	39	40	39	70	77	50	52	62

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 2,821 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 1,214 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 1,105 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

NORTH HEAD, WASH.

[H=194 ft.; H_b=211 ft.; H_t=5 ft.; H_r=3 ft.; H_a=56 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind				Number of days—																		
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	10.05	1.55	0.0	8.8	17.2	S.	67	S.	15	0	7	24	26	25	0	0	5	7	1	1	1	0	0	0	0	0	2
February	10.47	2.21	9.3	8.7	15.7	NW.	57	S.	13	0	6	22	22	19	5	2	7	4	0	0	0	1	0	0	4	0	0
March	4.73	1.05	T	7.5	14.4	S.	53	S.	11	4	8	19	20	16	1	0	6	10	4	8	5	0	0	0	0	0	0
April	1.14	.32	.0	7.4	13.4	N.	40	S.	7	5	5	20	10	8	0	0	0	3	2	2	1	0	0	0	0	0	0
May	1.84	.72	.0	6.9	13.3	N.	45	S.	5	4	14	13	12	10	0	0	1	4	2	2	0	0	0	0	0	0	0
June	2.18	.78	.0	7.9	14.0	N.	37	S.	3	1	12	17	18	11	0	0	1	2	1	0	0	0	0	0	0	0	1
July	1.13	.34	.0	6.1	15.0	N.	36	S.	6	8	10	13	12	7	0	0	0	9	2	5	1	0	0	0	0	0	0
August	.47	.12	.0	6.2	11.4	N.	41	S.	1	9	6	16	8	3	0	0	0	16	6	14	7	0	0	0	0	0	2
September	.68	.24	.0	5.7	11.3	N.	34	S.	2	10	7	13	14	7	0	0	0	16	3	14	7	0	0	0	0	0	0
October	4.21	1.12	.0	6.5	12.7	S.	51	S.	8	9	6	16	21	15	0	0	0	15	5	13	10	0	0	0	0	0	0
November	3.73	.57	.0	8.2	15.5	S.	48	S.	11	2	8	20	16	14	0	0	1	5	2	3	0	0	0	0	0	0	0
December	12.75	2.14	.0	8.0	19.9	SE.	70	S.	16	2	6	23	26	21	0	0	0	2	1	0	0	0	0	0	0	0	1
Year	53.38	2.21	9.3	7.3	14.5	N.	70	S.	98	54	95	216	205	156	6	2	21	93	29	62	32	1	0	0	4	0	6

NORTH PLATTE, NEBR.

Airport [H=2,784 ft.; H_b=2,787 ft.; H_t=5 ft.; H_r=3 ft.; H_a=45 ft.] City [H=2,805 ft. H_b=2,821 ft.; H_t=11 ft.; H_r=4 ft.; H_a=51 ft.]

January	0.70	0.23	4.1	6.0	7.9	W.	32	NW.	1	10	6	15	6	5	8	5	0	1	0	0	0	2	0	0	31	0	0
February	.15	.07	2.1	4.9	9.1	W.	31	N.	0	11	8	9	5	1	8	5	0	0	0	0	0	10	0	0	28	5	0
March	.88	.70	9.5	4.5	8.4	W.	31	N.	0	14	6	11	5	3	9	4	0	0	0	0	1	3	0	0	23	0	2
April	1.26	.66	2.4	5.9	9.7	N.	33	NW	1	9	5	16	10	6	4	2	1	0	0	0	0	0	1	0	11	0	3
May	2.51	1.06	.0	4.4	8.2	S.	25	NE.	0	14	10	7	11	7	0	0	0	0	0	0	0	0	3	0	0	0	8
June	3.51	1.18	.0	3.7	8.6	S.	29	W.	0	17	9	4	14	10	0	0	0	0	0	0	0	0	7	1	0	0	18
July	.35	.15	.0	4.7	7.4	SE.	28	SW.	0	14	11	6	7	3	0	0	1	0	0	0	0	0	22	11	0	0	10
August	1.17	1.01	.0	4.9	6.8	SE.	23	N.	0	11	12	8	4	2	0	0	0	0	0	0	0	0	18	2	0	0	6
September	.20	.11	.0	3.0	7.6	S.	25	NW.	0	20	7	3	3	2	0	0	0	0	0	0	0	0	10	7	0	0	1
October	.56	.56	T	2.7	7.6	W.	23	N.	0	22	5	4	2	2	1	0	0	5	0	0	0	0	0	0	6	0	0
November	T	T	T	3.3	6.5	N.	21	N.	0	20	1	9	0	0	2	0	0	0	0	0	0	0	0	0	28	0	0
December	.64	.28	7.9	5.2	7.0	NW.	30	NW.	0	9	11	11	5	3	7	5	0	6	2	1	0	6	0	0	27	3	0
Year	11.93	1.18	26.0	4.4	7.9	W.	33	NW.	2	171	91	103	72	44	39	21	2	12	2	1	1	21	61	21	154	8	48

OKLAHOMA CITY, OKLA.

Airport [H=1,280 ft.; H_b=1,304 ft.; H_t=27 ft.; H_r=24 ft.; H_a=60 ft.] City [H=1,254 ft.; H_b=1,214 ft.; H_t=10 ft.; H_r=3 ft.; H_a=47 ft.]

January	3.76	1.71	3.1	5.2	10.6	S.	25	S.	0	13	8	10	7	7	4	2	0	1	1	1	1	0	0	0	13	0	1
February	.43	.27	.1	5.3	11.2	N.	28	NW.	0	11	6	11	6	3	7	1	0	6	2	2	1	2	0	0	20	0	0
March	1.16	.65	.0	4.3	10.3	S.	33	W.	1	16	5	10	4	3	0	0	0	4	1	1	1	0	0	0	6	0	3
April	1.08	.73	T	4.7	11.0	S.	27	N.	0	12	10	8	3	2	1	0	0	1	0	0	0	0	1	0	2	0	2
May	2.88	1.15	.0	5.0	9.3	S.	26	S	0	12	11	8	7	7	0	0	0	4	1	1	1	0	8	2	0	0	8
June	7.83	3.80	.0	5.6	10.2	S.	26	NW.	0	9	10	11	12	10	0	0	0	0	0	0	0	0	11	4	0	0	13
July	.62	.31	.0	2.2	8.8	S.	28	N.	0	22	7	2	5	3	0	0	0	0	0	0	0	0	28	19	0	0	7
August	5.52	2.67	.0	4.2	7.7	S.	26	NE.	0	14	12	5	9	5	0	0	0	1	0	0	0	0	23	18	0	0	9
September	.06	.06	.0	1.7	8.2	S.	23	N.	0	27	1	2	1	1	0	0	0	0	0	0	0	0	24	16	0	0	1
October	2.39	1.53	.0	2.6	9.6	S.	26	N.	0	21	6	4	4	4	0	0	0	0	0	0	0	0	2	0	0	0	3
November	.84	.52	.0	5.1	7.2	S.	23	NW.	0	12	6	12	6	4	0	0	0	7	2	2	2	0	0	0	4	0	0
December	.93	.58	3.0	4.3	9.1	NW.	30	N.	0	13	11	7	4	4	3	2	0	4	0	0	0	3	0	0	9	0	0
Year	27.50	3.80	6.2	4.2	9.4	S.	33	W.	1	182	93	90	68	53	15	5	0	28	7	7	6	5	97	59	54	0	47

OMAHA, NEBR. (Airport)

[H=978 ft.; H_b=982 ft.; H_t=31 ft.; H_r=3 ft.; H_a=44 ft.]

January	0.50	0.24	4.4	6.4	10.8	SE.	38	NW.	3	8	7	16	7	3	8	4	0	5	0	2	2	5	0	0	28	0	0
February	1.55	.65	17.8	5.4	13.2	NW.	40	NW.	4	11	5	12	4	4	8	4	0	6	0	2	0	13	0	0	28	8	0
March	.89	.32	5.9	5.0	11.4	SE.	42	NW.	5	13	8	10	4	4	8	2	1	8	0	1	0	4	0	0	21	0	1
April	.64	.34	1.4	5.9	13.3	NW.	37	NW.	6	11	5	14	8	4	2	1	0	4	0	0	0	0	0	0	6	0	3
May	1.65	.68	.0	4.9	10.5	S.	39	SE.	3	11	13	7	9	7	0	0	0	1	1	0	0	0	7	2	0	0	7
June	5.42	1.23	.0	5.4	10.9	SE.	36	SW.	3	8	11	11	14	14	0	0	1	6	1	0	0	0	6	2	0	0	12
July	4.05	1.57	.0	4.5	9.4	SE.	42	NW.	3	12	14	5	12	8	0	0	0	3	1	0	0	0	17	10	0	0	10
August	2.03	.56	.0	5.0	8.8	SE.	31	NW.	0	14	7	10	12	9	0	0	0	4	2	0	0	0	8	2	0	0	8
September	.41	.25	.0	2.4	10.7	SE.	34	W.	2	21	4	5	5	3	0	0	0	0	0	0	0	0	13	7	1	0	2
October	1.09	.66	T	3.9	11.1	NW.	45	SW.	4	15	10	6	4	4	2	0	1	3	0	0	0	0	0	0	5	0	2
November	.35	.46	T	4.0	8.9	S.	31	SW.	0	17	4	9	2	1	2	0	0	8	1	0	4	0	0	0	17	0	0
December	.62	.21	8.4	6.0	9.2	NW.	37	NW.	4	7	11	13	6	4	11	5	0	10	1	0	1	9	0	0	24	0	0
Year	19.20	1.57	37.9	4.9	10.7	SE.	45	SW.	37	148	99	118	87	65	41	16	3	58	7	5	7	31	51	23	130	8	45

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

OSWEGO, N. Y.

[ϕ=43°29′ N.; λ=76°35′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.63	30.02	28.92		22.7		25.6		20.9		23.1	32.0	16.6	24.3	56	−9		17		18	17		77		71	74
February	29.66	30.26	28.99		23.5		28.0		21.6		25.7	34.6	17.4	26.0	56	−1		17		21	19		75		74	75
March	29.68	30.24	29.05		27.0		29.9		24.7		27.0	36.2	22.1	29.2	68	5		19		21	20		72		67	70
April	29.55	30.01	29.12		37.8		40.5		34.9		37.6	47.6	33.6	40.6	77	25		30		33	32		75		76	75
May	29.59	29.91	28.96		52.2		57.2		47.3		49.5	64.9	45.8	55.4	84	37		42		42	42		70		59	65
June	29.59	29.84	29.22		61.7		65.7		56.5		58.3	72.1	54.9	63.5	89	47		53		52	53		73		65	69
July	29.58	29.86	29.16		67.8		74.5		62.4		64.9	78.7	62.9	70.8	91	55		59		59	59		74		60	67
August	29.60	29.89	29.31		68.9		74.9		64.6		67.4	79.8	64.4	72.1	94	58		62		63	63		79		69	74
September	29.65	30.16	29.26		58.7		64.3		54.6		58.0	71.9	54.1	63.0	94	40		51		53	52		77		69	73
October	29.63	30.10	29.06		47.9	55.5	51.8		44.1	48.5	47.0	60.0	42.9	51.4	82	27		40	41	42	41		73	60	70	68
November	29.81	30.24	29.28		33.5	40.2	38.2		30.5	35.3	34.1	43.4	30.1	36.8	68	20		25	28	28	27		71	61	66	66
December	29.47	30.07	28.94		28.4	32.6	31.2		26.2	29.2	28.2	35.8	23.6	29.7	53	−4		22	22	22	22		75	65	67	69
Year	29.62	30.26	28.92		44.2		48.5		40.7		43.4	54.8	39.0	46.9	94	−9		36		38	37		74		68	70

PALESTINE, TEX.

[ϕ=31°45′ N.; λ=95°40′ W.]

January	29.55	30.03	29.04	49.7	46.2	55.3	55.4	44.9	43.2	47.3	47.2	60.5	42.9	51.7	72	28	39	39	38	37	38	69	78	56	55	64
February	29.51	30.12	29.01	47.5	43.9	52.6	53.6	43.2	41.4	46.0	46.4	59.6	38.9	49.2	75	22	37	38	38	38	38	70	80	62	59	68
March	29.54	29.92	29.10	57.4	52.9	65.5	66.7	51.2	48.6	53.9	55.1	70.5	51.1	60.8	83	33	44	44	42	44	44	65	72	46	48	58
April	29.46	29.85	29.00	61.7	57.1	69.9	71.7	55.5	53.8	58.1	58.8	75.2	55.1	65.2	89	38	50	51	48	49	50	67	80	49	46	60
May	29.39	29.64	29.05	69.1	66.3	78.9	80.2	63.9	63.1	66.8	68.0	83.1	64.0	73.6	90	54	61	61	60	61	61	76	84	54	55	67
June	29.41	29.63	29.21	76.0	73.3	84.4	84.7	71.9	71.2	73.2	73.7	88.1	72.1	80.1	94	67	70	70	68	69	69	83	91	60	61	74
July	29.45	29.62	29.29	78.5	74.9	89.0	90.0	72.2	71.7	73.9	73.9	93.5	73.9	83.7	101	71	70	70	67	67	68	75	86	50	49	65
August	29.43	29.61	29.21	78.1	74.1	89.5	89.3	71.8	71.0	73.3	73.3	94.4	73.1	83.8	102	68	69	70	66	66	68	74	87	47	48	64
September	29.46	29.64	29.25	76.4	70.9	88.2	87.6	67.2	66.7	69.9	69.4	92.8	69.9	81.4	103	53	62	64	60	59	61	63	81	40	41	56
October	29.54	29.82	29.34	65.5	60.5	77.0	75.6	57.4	55.8	61.7	60.5	81.1	58.9	70.0	93	39	50	51	50	48	50	60	73	40	41	54
November	29.72	30.12	29.43	51.6	48.1	58.9	57.9	46.9	45.0	50.4	50.2	62.6	46.1	54.4	79	34	42	41	48	42	43	70	79	56	60	66
December	29.54	29.90	29.17	51.6	47.8	58.9	58.3	46.5	44.3	49.2	49.1	63.8	45.4	54.6	81	23	40	40	39	40	40	68	76	52	54	62
Year	29.50	30.12	29.00	63.6	59.7	72.3	72.6	57.7	56.3	60.3	60.5	77.1	57.6	67.4	103	22	53	53	52	52	52	70	81	51	51	63

PARKERSBURG, W. VA.

[ϕ=39°16′ N.; λ=81°36′ W.]

January	29.34	29.70	28.61	36.8	34.1	41.6	39.7	33.7	32.1	36.9	35.6	46.5	30.1	38.3	64	13	29	29	31	30	30	76	82	68	69	74
February	29.39	29.92	28.80	34.9	33.2	43.6	40.8	32.4	31.5	38.0	36.3	49.0	28.0	38.5	75	6	29	29	31	30	30	79	86	63	68	74
March	29.38	29.89	28.63	41.8	39.2	50.3	48.4	37.8	35.9	42.3	41.3	55.7	34.0	44.8	81	16	32	32	33	33	32	70	77	55	57	65
April	29.28	29.86	28.83	46.3	44.7	56.8	54.4	42.8	41.6	46.9	45.7	61.3	40.5	50.9	85	27	39	38	36	36	37	76	77	49	54	64
May	29.31	29.57	28.87	59.7	58.1	75.3	73.3	55.0	54.1	59.6	59.8	78.4	53.8	66.1	92	34	51	51	47	50	50	74	78	39	46	59
June	29.31	29.54	29.06	69.0	68.9	81.5	77.2	66.3	65.5	69.6	68.2	84.6	64.6	74.6	93	51	65	64	64	64	64	87	84	56	65	73
July	29.31	29.54	29.02	68.9	68.0	80.2	78.0	66.3	65.0	68.6	68.8	83.8	64.6	74.2	94	51	65	63	62	64	56	87	86	57	64	74
August	29.31	29.53	29.08	69.1	67.2	82.3	79.0	66.2	64.6	69.5	69.2	85.3	64.1	74.7	92	56	65	63	63	64	64	86	88	54	62	72
September	29.35	29.67	29.07	65.3	62.3	80.6	75.3	60.6	58.8	64.8	63.9	84.4	58.7	71.6	98	45	58	56	55	57	56	78	83	45	56	66
October	29.39	29.80	28.99	52.4	49.8	66.2	60.8	48.4	46.9	54.1	51.8	70.2	46.1	58.2	89	28	44	44	44	43	44	76	82	46	55	65
November	29.56	29.90	29.18	37.9	34.2	50.3	45.5	35.5	32.8	42.1	39.7	52.3	32.8	42.6	75	23	32	31	32	32	32	80	88	53	61	70
December	29.29	29.75	28.86	36.6	34.1	41.7	38.8	33.7	31.8	36.7	35.2	45.8	30.5	38.2	67	11	30	28	30	30	30	77	80	66	72	74
Year	29.35	29.92	28.61	51.6	49.5	62.5	59.3	48.2	46.7	52.4	51.3	66.4	45.6	56.1	98	6	45	44	44	44	44	79	83	54	61	69

PENSACOLA, FLA.

[ϕ=30°25′ N.; λ=87°13′ W.]

January	30.07	30.46	29.58		52.8		58.3		49.9		54.1	63.1	49.1	56.1	72	36		47		50	48		81		76	78
February	30.04	30.46	29.63		53.9		59.8		52.2		56.3	64.1	49.9	57.0	70	29		50		52	51		87		79	83
March	30.06	30.46	29.70		58.0		64.6		53.6		58.6	69.0	55.6	62.3	82	45		49		53	51		75		70	73
April	29.98	30.39	29.71		61.9		68.1		57.7		62.1	71.7	60.0	65.8	81	41		54		58	56		77		72	74
May	29.93	30.12	29.74		70.7		74.4		66.6		68.4	77.9	68.2	73.0	82	55		64		65	65		81		74	78
June	29.94	30.14	29.58		77.0		79.4		74.0		73.8	83.8	74.3	79.0	90	68		73		71	72		87		77	82
July	29.95	30.17	29.79		78.2		81.7		74.7		74.8	86.8	74.9	80.8	95	70		73		72	72		85		74	80
August	29.91	30.14	29.65		76.4		79.9		73.8		74.1	84.8	73.5	79.2	92	68		73		72	72		89		77	83
September	29.95	30.13	29.69		74.8		80.7		71.4		73.4	84.2	73.4	78.8	90	65		70		70	70		85		71	78
October	30.00	30.16	29.83		65.0		73.1		61.3		65.1	77.7	63.1	70.4	87	43		58		60	59		80		65	72
November	30.14	30.45	29.76		50.8		61.4		47.1		54.0	65.8	49.9	57.8	74	36		43		47	45		76		62	69
December	30.01	30.32	29.49		50.4		57 5		48.6		53.4	64.4	47.2	55.8	77	33		47		50	48		88		76	82
Year	30.00	30.46	29.49		64.2		69.9		60.9		64.0	74.4	61.6	68.0	95	29		58		60	59		83		73	78

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

OSWEGO, N. Y.

[H=292 ft.; H_b=335 ft.; H_t=71 ft.; H_r=69 ft.; H_a=85 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	3.21	1.20	33.3	9.2	11.4	S.	34	W.	1	1	4	26	21	14	23	20	0	0	0	0	1	17	0	0	26	2	0
February	4.00	.67	27.9	8.9	12.0	SE.	34	SE.	1	0	5	23	16	15	20	12	0	3	1	0	0	11	0	0	28	1	0
March	2.84	.62	15.8	8.0	10.6	S.	32	W.	1	5	2	24	19	13	17	14	0	3	1	2	2	11	0	0	27	0	0
April	2.66	.73	2.0	8.0	10.0	W.	25	W.	0	3	7	20	19	15	8	5	0	2	0	0	0	0	0	0	13	0	2
May	1.33	.46	.0	5.9	7.6	N.	24	N.	0	11	7	13	10	5	0	0	0	4	0	0	4	0	0	0	0	0	4
June	2.17	.90	.0	5.9	8.1	W.	19	N.	0	8	9	13	13	12	0	0	0	0	0	1	1	0	0	0	0	0	4
July	1.14	.85	.0	4.9	7.7	W.	20	NW.	0	12	10	9	6	4	0	0	0	0	0	0	0	0	1	0	0	0	6
August	1.36	.68	.0	4.6	6.8	S.	22	N.	0	9	16	6	7	6	0	0	0	1	0	0	0	0	1	0	0	0	5
September	2.07	.63	.0	6.8	8.6	S.	27	N.	0	6	10	14	15	11	0	0	0	1	0	0	1	0	3	0	0	0	4
October	2.54	.81	T	7.3	10.2	SE.	30	NW.	0	6	6	19	14	10	3	0	2	3	0	0	1	0	0	0	2	0	4
November	1.08	.26	1.0	7.3	9.6	NW.	30	NW.	0	5	5	20	9	7	2	1	0	1	0	0	0	0	0	0	18	0	0
December	3.17	.99	5.3	8.5	11.7	NW.	34	NW.	1	2	4	25	17	14	14	7	0	2	2	0	0	11	0	0	23	1	1
Year	27.57	1.20	85.3	7.1	9.5	S.	34	W.	4	68	85	212	166	126	87	59	2	20	4	3	10	50	5	0	137	4	30

PALESTINE, TEX.

[H=491 ft.; H_b=510 ft.; H_t=64 ft.; H_r=57 ft.; H_a=72 ft.]

January	5.26	2.33	0.0	5.7	8.2	S.	27	SE.	0	9	7	15	12	10	0	0	0	12	6	2	2	0	0	0	2	0	2
February	4.43	1.45	T	6.2	9.1	S.	43	SE.	1	8	6	14	11	9	1	0	0	9	3	0	3	0	0	0	6	0	5
March	1.84	1.73	.0	5.6	8.6	S.	28	S.	0	10	6	15	5	3	0	0	0	7	1	2	0	0	0	0	0	0	4
April	1.45	1.27	.0	5.0	9.1	S.	36	W.	1	12	7	11	4	2	0	0	1	7	0	0	1	0	0	0	0	0	3
May	5.53	3.04	.0	5.7	6.6	S.	28	NW.	0	9	11	11	11	9	0	0	0	6	0	0	0	0	1	0	0	0	13
June	3.14	1.29	.0	5.7	7.4	S.	22	W.	0	10	8	12	9	7	0	0	0	5	0	0	0	0	12	0	0	0	9
July	.71	.21	.0	4.2	7.5	S.	24	S.	0	14	13	4	9	8	0	0	0	5	0	0	0	0	28	9	0	0	12
August	2.66	1.95	.0	5.1	6.5	S.	31	S.	0	11	15	5	8	5	0	0	1	5	0	1	1	0	30	15	0	0	12
September	.15	.11	.0	2.7	6.7	S.	22	SE.	0	19	9	2	5	1	0	0	0	0	0	0	0	0	26	8	0	0	6
October	1.37	.65	.0	3.4	7.4	S.	18	NW.	0	16	11	4	5	3	0	0	0	2	0	1	0	0	4	0	0	0	2
November	3.57	.95	.0	5.9	6.6	NE.	18	NE.	0	10	5	15	10	9	0	0	0	9	6	5	1	0	0	0	0	0	2
December	2.05	1.61	T	4.0	7.4	S.	27	W.	0	18	4	9	3	3	1	0	0	4	1	0	5	0	0	0	4	0	1
Year	32.16	3.04	T	4.9	7.6	S.	43	SE.	2	146	102	117	92	69	2	0	2	71	17	11	13	0	101	32	12	0	71

PARKERSBURG, W. VA.

[H=615 ft.; H_b=637 ft.; H_t=77 ft.; H_r=70 ft.; H_a=84 ft.]

January	2.71	0.95	5.6	7.9	7.6	SW.	30	W.	0	4	5	22	16	8	15	8	0	9	3	1	1	6	0	0	19	0	1
February	5.88	1.56	3.9	6.9	7.8	SE.	27	W.	0	8	4	16	15	12	9	6	0	11	1	0	0	4	0	0	18	0	0
March	4.20	1.09	T	5.2	7.7	SE.	25	W.	0	9	11	11	10	10	4	0	1	9	0	0	0	1	0	0	14	0	4
April	5.86	1.52	.1	6.0	7.8	SW.	28	W.	0	6	12	12	19	13	3	1	0	6	3	0	0	0	0	0	8	0	3
May	.53	.29	.0	4.2	5.4	SE.	17	S.	0	12	15	4	5	4	0	0	0	9	0	1	0	0	3	0	0	0	3
June	4.26	1.05	.0	5.5	5.6	SE.	24	NW.	0	9	10	11	15	14	0	0	0	10	1	0	2	0	5	0	0	0	13
July	4.62	1.10	.0	5.8	4.8	SE.	23	NW.	0	6	16	9	13	13	0	0	0	17	0	0	5	0	5	0	0	0	12
August	1.13	.55	.0	4.2	4.7	SE.	14	SW.	0	13	14	4	7	6	0	0	0	18	8	2	4	0	3	0	0	0	7
September	2.07	1.01	.0	3.2	5.5	SE.	25	NW.	0	18	9	3	6	4	0	0	0	13	3	0	0	0	9	3	0	0	5
October	3.13	1.53	.0	3.8	6.3	SE.	24	NW.	0	16	8	7	8	6	0	0	0	13	3	2	2	0	0	0	4	0	2
November	.72	.45	T	4.5	5.3	SW.	27	NW.	0	16	4	10	6	6	1	0	0	13	3	1	3	0	0	0	17	0	0
December	2.04	.60	7.2	6.5	7.5	SW.	30	W.	0	9	5	17	12	8	12	5	0	4	1	0	1	4	0	0	18	0	0
Year	37.15	1.56	16.8	5.3	6.3	SE.	30	W.	0	126	113	126	132	104	44	20	1	132	26	7	18	15	25	3	98	0	50

PENSACOLA, FLA.

[H=13 ft.; H_b=56 ft.; H_t=54 ft.; H_r=52 ft.; H_a=79 ft.]

January	2.51	1.09	0.0	5.2	13.1	S.	42	S.	4	9	14	8	7	7	0	0	0	6	2	0	3	0	0	0	0	0	3
February	5.89	1.42	.0	6.7	14.8	S.	38	SW.	7	5	7	16	14	14	0	0	0	8	2	2	8	0	0	0	2	0	5
March	.89	.51	.0	4.6	12.7	S.	34	SW.	2	13	8	10	5	4	0	0	0	9	3	1	7	0	0	0	0	0	2
April	2.22	.86	.0	4.5	13.2	S.	34	S.	2	12	13	5	6	6	0	0	0	1	0	0	0	0	0	0	0	0	3
May	7.23	2.21	.0	5.4	13.2	S.	36	S.	3	8	15	8	11	10	0	0	0	0	0	0	0	0	0	0	0	0	6
June	8.14	1.70	.0	6.1	12.0	S.	54	SE.	3	5	17	8	14	11	0	0	0	0	0	0	0	0	1	0	0	0	15
July	7.10	3.02	.0	5.6	10.5	NW.	48	NW.	5	6	19	6	18	14	0	0	0	0	0	0	0	0	8	1	0	0	18
August	19.02	5.29	.0	5.2	11.5	SW.	40	SW.	6	11	13	7	15	13	0	0	0	0	0	0	0	0	1	0	0	0	19
September	2.12	1.13	.0	4.5	10.8	NE.	44	SW.	1	15	8	7	9	6	0	0	0	0	0	0	0	0	0	0	0	0	9
October	.07	.06	.0	3.1	10.9	NE.	26	N.	0	19	8	4	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0
November	2.34	2.23	.0	3.6	11.8	N.	40	E.	1	17	7	6	4	3	0	0	0	2	0	0	0	0	0	0	0	0	0
December	2.86	2.66	.0	3.8	7.5	W.	35	S.	1	16	9	6	7	3	0	0	0	3	0	0	6	0	0	0	0	0	1
Year	60.39	5.29	.0	4.9	11.8	S.	54	SE.	35	136	138	91	112	92	0	0	0	30	7	3	24	0	10	1	2	0	81

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

PEORIA, ILL.

Airport [ϕ=40°40′ N.; λ=89°41′ W.] City [ϕ=40°42′ N.; λ=89°37′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	▪ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○ (1)	○	▪	○	○	○	○ (1)	▪ (1)	○ (1)	▪ (1)	○ (1)	% (1)	%	% (1)	%	%
January	29.32	29.76	28.71		28.1		34.3		27.0		32.4	39.6	24.8	32.2	60	5		25		29	27		89		82	86
February	29.39	29.94	28.61		22.2		30.6		21.2		28.4	36.6	18.4	27.5	56	4		19		25	22		86		78	82
March	29.39	29.83	28.76		32.8		46.0		30.9		40.2	50.9	31.1	41.0	82	13		28		34	31		81		63	72
April	29.30	29.88	28.62		41.2		52.7		38.9		45.9	57.8	37.6	47.7	84	22		36		39	38		83		61	72
May	29.30	29.68	28.82		57.9		72.0		54.0		60.8	77.7	54.6	66.2	93	37		51		53	52		78		53	65
June	29.28	29.64	28.82		67.1		77.8		64.3		68.5	82.7	63.3	73.0	93	48		63		64	63		86		64	75
July	29.32	29.66	29.12	69.5	68.0	81.9	81.9	66.1	65.3	70.9	71.2	86.5	65.9	76.2	97	58	64	64	66	66	65	84	87	60	61	74
August	29.32	29.68	29.10	66.5	63.2	80.2	77.2	63.5	61.8	68.1	68.5	84.8	61.7	73.2	92	54	62	61	62	64	62	85	92	55	66	79
September	29.36	29.78	29.04	63.4	59.0	81.4	74.5	58.1	55.9	63.9	62.2	85.3	58.1	71.7	102	38	55	54	53	54	54	74	83	39	51	67
October	29.36	29.96	29.06	50.6	46.5	65.4	58.4	46.4	43.8	53.1	50.1	70.1	44.1	57.1	89	29	42	41	42	42	42	74	82	46	58	70
November	29.61	30.14	29.21	36.1	33.1	46.8	41.9	33.9	31.7	40.1	37.6	50.6	31.7	41.2	67	20	31	30	32	32	31	81	86	57	68	77
December	29.32	29.69	28.91	30.5	27.3	38.4	33.8	28.5	26.0	33.6	30.7	42.7	25.1	33.9	62	−1	25	24	27	26	25	81	86	64	73	80
Year	29.36	30.14	28.61		45.5		56.8		43.4		49.7	63.8	43.0	53.4	102	−1		41		44	43		85		65	75

PHILADELPHIA, PA.

[ϕ=39°57′ N.; λ=75°09′ W.]

January	29.92	30.33	29.24		32.5		35.3		29.8		32.0	40.5	28.4	34.4	59	12		25		26	26		72		70	71
February	30.00	30.58	29.22		34.8		41.0		32.3		36.6	47.8	30.9	39.4	70	14		28		30	29		75		65	70
March	29.95	30.52	29.34		37.0		44.3		33.7		39.1	50.3	33.1	41.7	81	21		28		31	30		70		62	66
April	29.83	30.27	29.35		45.7		51.8		42.2		46.0	58.3	42.4	50.4	85	29		38		40	39		75		66	70
May	29.85	30.16	29.34		60.8		69.2		54.5		58.4	76.3	56.6	66 4	94	42		49		50	50		67		53	60
June	29.86	30.14	29.56		70.0		75.3		63.7		65.8	82.0	64.4	73.2	95	55		60		60	60		72		61	67
July	29.85	30.12	29.46		71.9	81.5	78.1		66.3	68.8	68.1	84.1	68.4	76.2	94	60		63	62	62	62		75	53	61	63
August	29.85	30.16	29.63		73.5	82.5	78.7		69.0	71.3	70.7	85.2	70.4	77.8	93	58		66	66	67	66		80	60	68	70
September	29.93	30.42	29.49		64.0	75.5	70.5		60.9	65.4	63.7	77.9	60.6	69.2	96	52		59	59	59	59		84	58	70	71
October	29.92	30.39	29.33		53.4	63.2	59.0		50.1	54.0	52.3	65.6	49.6	57.6	90	36		46	46	46	46		79	55	64	66
November	30.06	30.41	29.57		40.2	50.1	46.0		35.9	41.5	38.8	52.0	37.8	44.9	70	33		30	30	29	29		66	48	52	55
December	29.77	30.37	29.31		35.2	41.5	39.2		32.4	36.6	34.8	44.5	31.7	38.1	63	17		27	29	28	28		73	62	62	66
Year	29.90	30.58	29.22		51.6		57.4		47.6		50.5	63.7	47.9	55.8	96	12		43		44	44		74		63	66

PHOENIX, ARIZ.

Airport [ϕ=33°26′ N.; λ=112°03′ W.] City [ϕ=33°28′ N.; λ=112°04′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1 4)	(1)	(1)	(1)	(1 4)	(1)						(1)	(1)	(1 4)	(1)	(1)	(1)	(1)	(14)	(1)	(1)
January	28.86	29.18	28.48		43.9	59.8	61.9		38.9	46.6	47.3	64.6	40.3	52.4	72	33		32	34	30	32		66	36	32	45
February	28.85	29.21	28.45		39.5	55.9	58.0		35.0	43.0	43.8	60.5	36.6	48.6	76	28		28	26	24	26		65	34	32	44
March	28.80	29.10	28.54		50.3	72.0	75.2		43.0	53.0	53.4	77.2	47.5	62.4	91	36		34	34	31	33		56	27	21	34
April	28.73	29.10	28.48		58.8	81.1	84.1		47.2	56.3	57.4	86.7	55.8	71.2	99	44		34	32	32	32		42	19	18	26
May	28.64	28.82	28.42		64.0	89.5	92.7		49.1	59.1	59.9	94.7	62.8	78.8	105	56		33	31	29	31		32	13	11	19
June	28.62	28.81	28.46		71.2	96.7	100.5		54.4	64.1	64.5	101.9	69.9	85.9	109	60		39	39	36	38		32	14	11	19
July	28.66	28.86	28.50	87.2	79.3	98.5	104.8	68.1	65.4	71.1	71.4	105.8	79.0	92.4	114	70	58	57	56	52	56	38	48	26	18	33
August	28.66	28.86	28.50	85.4	78.7	95.4	102.0	70.7	69.2	73.6	73.5	102.4	77.9	90 2	109	70	63	64	64	60	63	50	63	36	26	43
September	28.72	28.92	28.46	76.7	71.7	85.7	89.6	68.2	65.5	70.4	70.3	94.2	70.7	82.4	110	59	64	62	61	60	61	67	74	42	42	56
October	28.77	29.04	28.46	61.6	54.4	79.6	82.0	51.2	46.8	57.4	58.5	86.9	54.6	70.8	95	42	42	39	38	38	39	49	58	24	22	38
November	28.86	29.06	28.69	55.6	50.9	72.4	71.2	48.7	45.3	54.6	55.3	77.8	50.8	64.3	89	43	42	39	37	42	40	62	67	31	37	49
December	28.90	29.09	28.55	47.9	42.1	63.2	65.1	42.7	38.4	49.6	51.5	72.3	43.0	57.6	84	31	37	34	36	38	36	66	72	38	38	54
Year	28.76	29.21	28.42		58.7	79.2	82.3		49.8	58.2	58.9	85.4	57.4	71.4	114	28		41	41	39	41		56	28	26	38

PITTSBURGH, PA. (Airport)

[ϕ=40°21′ N.; λ=79°56′ W.]

	(5)	(5)	(5)																						
January	29.10	29.50	28.45	32.1	29.4	36.2	34.7	29.3	27.4	31.9	31.6	40.6	25.7	33.2	62	6	25	24	25	27	26	76	82	65	73	77
February	29.16	29.65	28.58	31.2	28.4	38.6	36.4	28.6	26.8	33.7	32.5	43.8	24.3	34.0	67	4	24	24	26	26	25	76	82	61	69	76
March	29.14	29.62	28.44	37.3	34.8	44.9	42.0	33.0	31.4	37.6	35.7	49.8	30.3	40.0	79	12	26	26	27	27	26	65	72	52	56	64
April	29.05	29.55	28.61	43.4	41.7	51.1	48.4	39.2	38.8	43.1	41.7	56.5	37.8	47.2	80	23	34	35	34	34	35	71	78	56	61	69
May	29.09	29.35	28.64	57.8	57.2	71.8	69.2	52.0	52.0	57.4	57.1	75.6	52.3	64.0	92	33	47	48	46	48	48	68	71	41	48	59
June	29.09	29.32	28.83	67.0	67.1	76.6	73.5	62.9	63.2	66.4	65.5	80.8	61.9	71.4	91	51	60	61	61	61	61	80	81	61	68	74
July	29.10	29.30	28.78	66.5	66.4	78.0	75.0	62.6	62.8	66.1	66.1	81.2	61.4	71.3	93	53	60	61	60	61	61	81	82	54	63	73
August	29.10	29.31	28.90	67.9	66.7	81.3	77.0	63.2	63.0	66.7	66.3	84.2	62.8	73.5	90	57	60	61	59	60	61	78	82	47	58	70
September	29.14	29.52	28.86	62.6	59.4	76.0	69.6	57.6	55.9	61.8	59.9	80.0	55.6	67.8	95	44	54	53	52	53	53	75	81	46	59	70
October	29.16	29.54	28.72	51.7	48.3	62.1	57.6	46.8	45.0	50.8	49.1	65.6	45.4	55.5	87	27	42	42	40	41	41	70	78	47	56	67
November	29.32	29.64	28.91	37.6	34.1	46.2	42.4	34.1	31.7	38.8	37.0	48.2	32.5	40.4	73	24	29	28	29	30	29	72	78	52	62	70
December	29.02	29.52	28.63	33.9	31.5	37.0	34.7	31.5	29.7	32.8	32.0	41.1	27.9	34.5	63	8	28	27	27	28	27	79	84	68	76	80
Year	29.12	29.65	28.44	49.1	47.1	58.3	55.0	45.1	44.0	48.9	47.9	62.3	43.2	52.7	95	4	41	41	40	41	41	74	79	54	62	71

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 609 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 1,107 feet.
[4] Noon, local time.
[5] Pressure at airport adjusted to the old (city) station elevation of 842 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

PEORIA, ILL.

Airport [H=659 ft.; H_b=658 ft.; H_t=4 ft.; H_r= 3 ft.; H_a=26 ft.] City [H=602 ft.; H_b=609 ft.; H_t=11 ft.; H_r=4 ft.; H_a=45 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind				Number of days—																	
					By self-register							Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.40	1.26	13.6	6.1	7.3	S.	24	NE.	0	10	7	14	13	12	16	10	0	18	9	0	2	9	0	0	26	0	2
February	2.88	1.83	3.3	5.3	8.5	NW.	25	SW.	0	10	7	11	10	7	9	5	0	6	2	0	2	10	0	0	27	0	2
March	3.24	1.67	T	3.4	8.5	W.	24	NE.	0	19	6	6	8	5	5	0	0	4	2	0	0	2	0	0	18	0	2
April	5.16	1.72	T	5.2	8.0	W.	21	SW.	0	11	8	11	13	13	5	0	0	9	3	0	0	0	0	0	7	0	4
May	4.48	1.20	.0	3.7	6.0	S.	16	NW.	0	14	15	2	10	8	0	0	0	3	0	0	0	0	1	0	0	0	7
June	5.53	1.91	.0	4.4	5.2	S.	16	W.	0	14	13	3	17	14	0	0	0	6	1	0	0	0	5	0	0	0	13
July	4.80	3.06	.0	3.8	4.4	S.	16	NE.	0	20	5	6	7	7	0	0	1	3	1	0	0	0	10	1	0	0	11
August	2.38	.82	.0	3.6	4.1	NE.	16	W.	0	18	9	4	9	8	0	0	0	4	1	0	0	0	3	0	0	0	9
September	.85	.55	.0	2.5	5.0	S.	16	S.	0	21	7	2	4	2	0	0	0	0	0	0	0	0	12	6	0	0	2
October	3.80	3.09	.0	3.5	6.0	S.	16	W.	0	16	11	4	11	8	0	0	0	5	0	0	0	0	0	0	2	0	6
November	1.14	.73	T	5.1	5.6	S.	17	S.	0	11	8	11	9	5	1	0	0	11	4	0	1	0	0	0	19	0	1
December	.61	.45	8.0	4.8	6.5	S.	22	W.	0	14	7	10	5	3	9	3	0	10	7	0	4	8	0	0	24	1	0
Year	38.27	3.09	24.9	4.3	6.2	S.	25	SW.	0	178	103	84	116	95	45	18	1	79	30	0	9	29	31	7	123	1	59

PHILADELPHIA, PA.

[H=26 ft.; H_b=114 ft.; H_t=174 ft.; H_r=166 ft.; H_a=367 ft.]

January	4.46	2.49	11.0	6.5	13.1	NW.	41	NW.	3	8	6	17	12	9	8	7	0	5	0	0	0	5	0	0	17	0	1
February	6.12	1.69	.5	6.4	13.7	SW.	50	SW.	6	7	9	12	13	10	3	2	0	6	4	2	4	1	0	0	13	0	0
March	4.32	.93	4.0	6.1	13.5	NW.	36	N.	2	8	9	14	14	12	4	2	0	7	1	1	1	0	0	0	14	0	2
April	6.40	1.76	T	6.4	13.4	NW.	40	S.	5	4	14	12	15	13	2	1	0	9	3	1	3	0	0	0	3	0	2
May	1.91	.86	.0	4.6	11.9	SW.	39	N.	1	13	10	8	4	4	0	0	0	2	1	0	1	0	1	0	0	0	3
June	4.45	1.32	.0	5.8	11.8	E.	31	N.	0	8	10	12	15	14	0	0	0	6	1	0	0	0	4	1	0	0	7
July	2.19	1.61	.0	5.3	11.0	SW.	35	S.	2	10	13	8	10	6	0	0	0	3	0	0	0	0	4	0	0	0	9
August	6.90	3.76	.0	5.8	10.6	S.	39	S.	2	9	9	13	13	12	0	0	1	6	2	1	1	0	4	0	0	0	10
September	1.91	1.24	.0	4.8	11.2	SW.	31	N.	0	10	14	6	8	7	0	0	0	10	2	1	1	0	1	1	0	0	3
October	4.30	1.66	.0	5.5	12.0	SW.	34	NW.	2	10	9	12	8	6	0	0	0	14	3	0	2	0	0	0	0	0	1
November	1.26	1.03	.4	4.5	13.7	NW.	35	NE.	1	13	10	7	3	3	4	2	0	2	0	0	0	0	0	0	0	0	0
December	1.18	.32	2.9	6.5	13.3	NW.	40	NW.	5	6	9	16	8	7	7	3	0	6	3	3	3	1	0	0	13	0	0
Year	45.40	3.76	18.8	5.7	12.4	SW.	50	SW.	29	106	122	137	123	103	28	17	1	76	20	9	16	7	14	2	60	0	38

PHOENIX, ARIZ.

Airport [H=1,108 ft.; H_b=1,112 ft.; H_t=5 ft.; H_r=12 ft.; H_a=87 ft.] City [H=1,083 ft.; H_b=1,107 ft.; H_t=39 ft.; H_r=37 ft.; H_a=87 ft.]

January	0.18	0.15	0.0	4.1	5.8	E.	28	NW.	0	16	9	6	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
February	.89	.48	.5	3.8	6.0	E.	30	W.	0	12	12	4	6	6	3	1	0	0	0	0	0	0	0	0	3	0	0
March	.15	.07	.0	3.8	5.6	E.	30	SW.	0	18	6	7	4	2	0	0	0	0	0	0	0	0	2	0	0	0	0
April	.17	.16	.0	3.5	6.5	E.	27	SE.	0	16	10	4	2	1	0	0	0	0	0	0	0	10	2	0	0	0	1
May	.00	.00	.0	2.1	6.2	E.	18	W.	0	23	5	3	0	0	0	0	0	0	0	0	0	24	15	0	0	0	0
June	.00	.00	.0	.9	6.1	W.	23	NW.	0	28	2	0	0	0	0	0	0	0	0	0	0	29	26	0	0	0	0
July	.71	.65	.0	2.5	6.5	W.	33	NE.	1	20	10	1	2	2	0	0	0	0	0	0	0	31	31	0	0	0	5
August	.84	.61	.0	3.5	6.0	W.	30	E.	0	17	9	5	7	4	0	0	0	0	0	0	0	31	30	0	0	0	13
September	5.41	3.06	.0	3.7	5.2	E.	26	SW.	0	18	4	8	9	9	0	0	0	0	0	0	0	19	14	0	0	0	9
October	.02	.02	.0	1.1	5.2	E.	18	SW.	0	28	3	0	1	0	0	0	0	0	0	0	0	12	1	0		0	2
November	.75	.39	.0	4.2	5.0	E.	19	W.	0	13	10	7	2	2	0	0	0	2	0	0	1	0	0	0	0	0	2
December	T	T	.0	3.4	4.4	E.	17	W.	0	18	7	6	0	0	0	0	0	1	0	0	0	0	0	0	2	0	0
Year	9.12	3.06	.5	3.0	5.7	E.	33	NE.	1	227	87	51	35	27	3	1	0	3	0	0	1	0	158	119	5	0	32

PITTSBURGH, PA. (Airport)

[H=1,249 ft.; H_b=1,273 ft.; H_t=39 ft.; H_r=38 ft.; H_a=54 ft.]

January	2.89	1.24	15.1	8.3	12.6	SW.	45	W.	6	1	7	23	17	9	19	12	0	7	4	2	4	9	0	0	19	0	0
February	4.32	1.09	8.6	6.8	13.6	SW.	47	NW.	5	7	7	14	19	14	12	8	0	15	5	2	2	6	0	0	22	0	0
March	2.86	.82	.4	6.3	13.1	SW.	45	SW.	3	7	10	14	13	9	13	4	0	9	3	2	2	2	0	0	21	0	2
April	3.16	.55	.4	7.3	12.7	SW.	38	NW.	3	3	12	15	17	16	9	6	0	13	5	0	3	0	0	0	10	0	2
May	1.48	.53	.0	4.8	9.2	SW.	29	SW.	0	10	13	8	10	7	0	0	0	4	1	1	1	0	1	0	0	0	4
June	4.99	1.81	.0	6.1	9.1	SW.	34	NW.	2	7	14	9	15	14	0	0	0	19	4	4	4	0	4	0	0	0	7
July	2.73	.73	.0	6.5	8.6	SW.	29	NW.	0	2	21	8	11	9	0	0	0	14	6	4	3	0	2	0	0	0	11
August	1.25	.79	.0	5.7	8.2	SW.	25	W.	0	8	12	11	8	7	0	0	0	12	2	1	1	0	2	0	0	0	5
September	2.58	1.11	.0	4.4	9.7	S.	34	W.	3	11	13	6	8	7	0	0	0	9	0	0	1	0	6	1	0	0	6
October	3.14	1.63	T	5.4	11.0	S.	34	W.	1	11	8	12	12	6	3	0	0	6	3	2	1	0	0	0	3	0	3
November	.53	.14	T	5.7	10.7	W.	43	SW.	2	10	8	12	8	6	7	2	0	7	4	3	1	0	0	0	15	0	0
December	1.66	.54	5.2	7.8	13.1	SW.	41	NW.	2	4	5	22	17	10	19	13	0	12	4	4	2	10	0	0	22	0	0
Year	31.59	1.81	29.7	6.2	11.0	SW.	47	NW.	27	81	130	154	155	114	82	45	0	127	41	25	25	27	15	1	112	0	40

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

POCATELLO, IDAHO (Airport)

[ϕ=42°55′ N.; λ=112°31′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	25.49	25.98	24.98	26.9	25.4	28.6	30.8	25.3	23.7	26.2	28.2	35.2	20.5	27.8	51	4	23	21	23	25	23	85	85	79	77	82
February	25.43	25.90	24.82	20.5	18.6	23.3	26.8	19.2	17.6	21.6	24.3	30.3	13.0	21.6	37	1	17	16	18	20	18	85	89	80	74	82
March	25.48	25.80	25.09	35.6	30.6	42.2	46.7	32.0	28.6	35.8	38.1	49.4	26.9	38.2	66	8	28	26	29	29	28	73	84	60	53	68
April	25.48	25.97	25.20	46.5	38.5	56.5	59.0	38.1	33.7	43.6	43.7	62.7	34.9	48.8	83	14	28	28	30	27	28	50	66	38	33	47
May	25.42	25.69	25.14	54.7	45.4	65.0	70.0	44.5	40.0	49.5	50.5	73.5	43.2	58.4	91	29	34	34	36	33	34	49	66	36	27	44
June	25.42	25.71	25.01	60.1	49.4	68.0	72.0	46.5	41.8	50.7	51.4	75.6	46.4	61.0	94	35	33	34	36	34	34	40	58	34	27	40
July	25.50	25.72	25.22	70.0	58.3	80.5	85.8	53.4	48.8	58.4	59.3	88.6	55.8	72.2	102	46	40	40	43	40	41	37	54	30	24	36
August	25.51	25.68	25.29	69.7	56.0	79.1	86.0	51.0	45.5	56.7	57.0	88.6	52.6	70.6	96	40	34	35	40	33	36	29	47	26	16	30
September	25.51	25.85	25.15	58.5	48.4	67.6	73.4	47.2	42.6	52.3	53.1	76.4	44.7	60.6	87	32	37	37	40	36	37	47	67	39	28	45
October	25.54	25.92	24.94	47.5	40.9	54.8	57.5	40.3	36.8	44.6	45.0	61.6	36.8	49.2	73	25	32	32	35	32	33	59	73	50	42	56
November	25.65	25.82	25.31	33.2	26.1	43.8	46.5	28.7	23.7	35.2	36.2	54.6	22.5	38.6	68	11	22	19	24	23	22	62	75	46	39	55
December	25.57	25.92	25.11	32.0	29.7	37.8	38.3	28.4	26.7	32.4	32.8	45.0	23.3	34.2	63	−7	24	23	26	26	25	76	79	66	63	71
Year	25.50	25.98	24.82	46.3	38.9	53.9	57.7	37.9	34.1	42.2	43.3	61.8	35.0	48.4	102	−7	29	29	32	30	30	58	70	49	42	55

PORT ARTHUR, TEX.

[ϕ=29°52′ N.; λ=93°56′ W.]

January	30.05	30.55	29.53	----	52.7	61.0	----	----	50.5	54.8	----	64.4	49.0	56.7	74	35	----	48	48	----	48	----	85	67	----	76
February	30.01	30.59	29.56	----	51.9	60.1	----	----	49.4	54.1	----	64.2	48.4	56.3	74	30	----	46	48	----	47	----	82	68	----	75
March	30.05	30.45	29.70	----	58.8	69.2	----	----	55.9	59.9	----	71.6	56.2	63.9	80	41	----	53	53	----	53	----	83	58	----	70
April	29.96	30.29	29.61	----	62.9	72.4	----	----	59.7	62.4	----	75.1	60.3	67.7	84	41	----	57	55	----	56	----	82	57	----	70
May	29.89	30.10	29.61	----	71.6	80.8	----	----	68.0	69.5	----	84.2	68.8	76.5	90	61	----	66	63	----	65	----	83	58	----	70
June	29.91	30.10	29.72	----	78.4	86.2	83.3	----	74.4	75.5	75.2	89.2	76.6	82.9	96	65	----	73	71	72	72	----	83	62	69	71
July	29.94	30.10	29.70	80.2	78.7	87.9	85.5	76.2	75.3	76.5	76.9	90.5	76.9	83.7	100	71	75	74	72	74	74	84	86	60	68	74
August	29.92	30.10	29.74	79.3	77.5	88.9	84.1	75.5	74.8	76.7	76.1	91.7	75.8	83.8	96	72	74	74	72	73	73	84	88	58	70	75
September	29.95	30.09	29.73	77.9	74.5	86.7	82.6	73.2	71.2	73.9	73.9	89.2	73.2	81.2	95	63	71	70	68	70	70	80	85	55	67	72
October	30.02	30.25	29.86	68.9	65.2	77.3	73.8	64.1	61.7	65.7	65.7	80.3	63.6	72.0	88	42	61	59	58	60	59	76	81	53	64	69
November	30.18	30.57	29.91	----	52.7	63.3	60.5	----	49.8	54.8	54.8	66.2	50.7	58.4	78	35	----	47	47	49	48	----	81	59	69	70
December	30.04	30.34	29.63	----	52.3	63.4	----	----	49.9	54.8	----	66.3	49.3	57.8	77	30	----	47	47	----	47	----	84	58	----	71
Year	29.99	30.59	29.53	----	64.8	74.8	----	----	61.7	64.9	----	77.7	62.4	70.1	100	30	----	60	58	----	59	----	84	59	----	72

PORTLAND, MAINE

[ϕ=43°39′ N.; λ=70°15′ W.]

January	29.84	30.44	28.96	21.0	19.4	28.3	25.0	19.1	17.4	24.3	21.6	31.7	15.5	23.6	54	−1	14	11	14	14	13	71	68	54	60	63
February	29.95	30.56	29.16	23.0	20.7	28.1	27.2	21.6	19.2	25.0	24.9	33.5	16.0	24.8	50	0	18	15	18	19	17	81	76	68	72	74
March	29.92	30.37	29.21	26.7	25.3	33.2	30.9	25.5	23.4	29.1	27.5	36.2	22.1	29.2	48	5	23	18	20	20	20	84	73	61	64	70
April	29.81	30.40	29.10	37.1	37.5	45.3	40.8	34.9	34.4	39.0	35.9	47.4	33.9	40.6	61	27	32	29	30	29	30	81	73	59	65	69
May	29.85	30.25	29.26	49.3	51.7	56.3	52.4	45.6	46.2	48.2	46.6	61.5	45.0	53.2	86	36	41	40	39	40	40	76	66	57	66	66
June	29.85	30.18	29.53	57.2	59.5	65.1	60.9	53.6	54.8	56.8	55.0	68.7	53.5	61.1	86	46	50	51	50	50	50	80	75	62	71	72
July	29.84	30.18	29.47	63.5	66.1	73.8	68.1	60.4	62.0	64.9	62.4	76.2	59.6	67.9	88	51	58	59	59	58	58	84	80	63	74	75
August	29.88	30.18	29.58	65.7	66.6	74.0	69.1	63.4	63.4	66.3	64.9	76.5	62.9	69.7	84	58	62	61	62	63	62	89	84	68	81	80
September	29.89	30.42	29.44	56.4	56.9	65.1	60.4	53.1	53.1	57.9	55.5	68.4	51.9	60.2	96	37	50	50	52	51	51	80	78	67	71	75
October	29.87	30.29	29.07	47.4	46.5	55.2	50.8	44.1	43.1	48.9	46.0	57.5	42.0	49.8	72	29	40	39	42	40	40	76	75	64	68	71
November	29.98	30.47	29.10	34.9	32.4	42.2	37.7	31.5	28.8	35.2	32.7	44.3	29.8	37.0	57	21	36	23	24	24	27	67	64	49	56	59
December	29.65	30.25	28.99	27.8	25.7	32.4	29.9	25.9	23.5	28.9	26.9	35.5	22.4	29.0	53	3	22	19	21	20	20	76	73	63	65	69
Year	29.86	30.56	28.96	42.6	42.4	49.9	46.1	39.9	39.1	43.7	41.7	53.1	37.9	45.5	96	−1	37	35	36	36	36	79	74	61	68	70

PORTLAND, OREG.

Airport [ϕ=45°34′ N.; λ=122°43′ W.] City [ϕ=45°32′ N.; λ=122°40′ W.]

	(1 2)	(1 2)	(1 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.94	30.48	29.27	----	41.9	44.8	46.4	----	40.2	42.2	43.0	47.9	39.6	43.8	58	33	----	38	39	39	39	----	87	81	76	81
February	29.99	30.62	29.14	----	38.2	42.9	44.8	----	36.6	39.4	40.2	46.0	35.6	40.8	53	24	----	35	35	34	35	----	86	74	68	76
March	29.93	30.28	29.50	----	43.1	52.4	56.0	----	41.3	45.8	47.4	57.5	41.3	49.4	76	32	----	39	38	38	38	----	86	61	55	67
April	29.97	30.38	29.63	----	48.5	59.7	64.2	----	44.4	49.5	51.5	66.1	45.8	56.0	84	38	----	40	39	39	39	----	74	50	44	56
May	29.89	30.12	29.54	----	52.1	64.9	69.3	----	48.7	53.7	55.5	70.9	50.4	60.6	96	40	----	46	44	44	45	----	80	48	43	57
June	29.89	30.12	29.50	----	53.8	64.7	68.1	----	51.0	55.8	57.5	69.7	52.9	61.3	86	47	----	48	49	50	49	----	83	58	54	65
July	29.87	30.17	29.62	65.7	58.8	68.6	79.3	58.3	55.6	59.1	63.3	80.5	58.3	69.4	98	52	53	53	53	53	53	66	83	58	42	62
August	29.83	30.08	29.53	66.7	59.1	69.1	80.3	58.4	55.7	60.0	63.6	81.5	58.4	70.0	100	49	53	53	54	52	53	64	82	60	43	62
September	29.85	30.11	29.54	61.8	56.5	64.0	73.2	56.5	53.9	57.0	60.9	75.1	55.7	65.4	88	47	53	52	52	52	52	74	85	66	51	69
October	29.94	30.36	29.48	54.2	50.7	55.6	61.5	51.6	49.5	52.2	54.7	63.6	49.5	56.6	80	38	49	48	49	49	49	84	92	81	66	81
November	29.99	30.30	29.61	47.3	44.8	48.4	52.9	45.7	43.7	46.0	49.1	56.4	43.5	50.0	66	35	44	43	44	46	44	90	93	84	78	86
December	29.86	30.25	29.21	45.1	44.1	45.3	46.9	43.7	42.7	43.7	44.9	51.0	41.7	46.4	62	28	42	41	42	43	43	90	91	89	86	89
Year	29.91	30.62	29.14	----	49.3	56.7	61.9	----	46.9	50.4	52.6	63.8	47.7	55.8	100	24	----	45	45	45	45	----	85	68	59	71

[1] Airport data beginning with July.

[2] Pressure at airport adjusted to the old (city) station elevation of 154 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

POCATELLO, IDAHO (Airport)

[H=4,461 ft.; H_b=4,478 ft.; H_t=5 ft.; H_r=4 ft.; H_a=31 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	0.94	0.35	8.6	8.2	10.2	SW.	31	W.	0	3	5	23	11	7	16	11	0	15	5	1	0	9	0	0	31	0	0
February	.89	.28	12.8	7.9	11.2	SW	39	W.	3	2	7	19	17	8	21	17	0	18	0	0	0	19	0	0	28	0	0
March	.57	.23	9.0	5.6	10.0	SW.	34	W.	1	9	9	13	5	4	7	5	0	4	0	0	0	3	0	0	22	0	0
April	.44	.19	1.3	5.0	11.4	SW.	38	W.	6	10	9	11	7	3	3	1	0	1	0	0	0	0	0	0	10	0	2
May	.37	.31	.0	4.9	10.3	SW.	33	W.	1	10	13	8	5	2	0	0	1	0	0	0	0	0	1	0	1	0	2
June	.42	.20	.0	5.0	11.8	W.	37	W.	1	10	13	7	6	5	0	0	1	0	0	0	0	0	3	0	0	0	3
July	.86	.51	0	3.6	9.2	SW.	32	SW.	1	14	13	4	6	4	0	0	0	0	0	0	0	0	16	9	0	0	6
August	.10	.03	.0	3.0	8.8	W.	33	NW.	1	20	8	3	4	0	0	0	0	0	0	0	0	0	16	4	0	0	3
September	.43	.17	.0	3.6	9.7	SW.	31	SW.	0	15	11	4	7	3	0	0	1	2	0	0	0	0	0	0	1	0	3
October	.85	.39	.6	5.7	9.6	SW.	33	SW.	2	9	8	14	7	5	2	1	2	0	0	0	0	0	0	0	8	0	2
November	.02	.02	.0	4.1	5.4	SW.	23	W.	0	14	8	8	1	0	0	0	0	2	1	0	0	0	0	0	26	0	0
December	.54	.32	1.3	8.5	8.5	SW.	45	W.	2	2	9	20	7	4	10	3	0	10	1	0	0	5	0	0	26	1	0
Year	6.43	.51	33.6	5.4	9.7	SW.	45	W.	18	118	113	134	83	45	59	38	5	52	7	1	0	36	36	13	153	1	21

PORT ARTHUR, TEX.

[H=5 ft.; H_b=34 ft.; H_t=59 ft.; H_r=52 ft.; H_a=134 ft.]

January	4.65	3.00	0.0	5.9	13.2	S.	38	NW.	4	7	10	14	11	8	0	0	0	9	5	4	3	0	0	0	0	0	3
February	1.92	.88	.0	6.6	15.8	SE.	37	S.	8	4	11	13	11	8	0	0	0	11	8	3	2	0	0	0	1	0	0
March	.75	.52	.0	5.8	13.9	S.	32	S.	2	9	11	11	8	3	0	0	0	9	8	6	3	0	0	0	0	0	1
April	1.92	.93	.0	5.7	14.8	S.	41	S.	3	7	14	9	6	4	0	0	0	1	1	0	0	0	0	0	0	0	3
May	4.62	1.85	.0	5.9	11.4	S.	39	S.	1	5	17	9	9	9	0	0	0	0	0	0	0	0	0	0	0	0	9
June	3.85	2.06	.0	6.1	12.1	S.	40	S.	1	4	15	11	5	5	0	0	0	0	0	0	0	0	13	2	0	0	7
July	7.88	4.29	.0	5.3	11.6	SW.	37	E.	2	7	16	8	6	6	0	0	0	0	0	0	0	0	20	3	0	0	11
August	2.44	.68	.0	5.6	10.1	S.	29	S.	0	5	18	8	12	8	0	0	0	0	0	0	0	0	22	2	0	0	18
September	1.26	.85	.0	4.5	11.2	S.	34	SE.	3	9	17	4	5	4	0	0	0	1	0	0	0	0	14	0	0	0	3
October	.98	.71	.0	4.5	12.0	S.	33	N.	1	12	14	5	5	3	0	0	0	7	4	3	3	0	0	0	0	0	2
November	4.40	2.43	.0	5.7	11.5	N.	29	E.	0	9	8	13	10	8	0	0	0	4	3	1	0	0	0	0	0	0	0
December	2.30	1.20	.0	4.7	11.8	S.	38	NE.	3	11	12	8	7	6	0	0	0	11	10	6	6	0	0	0	1	0	3
Year	36.97	4.29	.0	5.5	12.4	S.	41	S.	28	89	163	113	95	72	0	0	0	53	39	23	17	0	69	7	2	0	60

PORTLAND, MAINE

[H=47 ft.; H_b=103 ft.; H_t=82 ft.; H_r=75 ft.; H_a=117 ft.]

January	3.19	1.27	14.5	4.4	7.3	N.	17	NW.	0	14	10	7	8	8	11	6	0	1	0	0	2	17	0	0	29	2	2
February	3.52	1.43	9.8	5.9	7.6	N.	24	SE.	0	9	6	13	15	13	16	11	0	4	3	4	4	12	0	0	28	1	1
March	8.00	3.21	30.9	5.4	9.6	N.	31	NE.	0	13	6	12	18	15	13	11	0	4	3	3	6	8	0	0	26	0	1
April	5.79	1.50	6.5	5.9	8.4	W.	34	NE.	1	9	8	13	16	13	9	7	0	5	2	3	3	0	0	0	11	0	4
May	1.52	1.36	T	4.8	7.6	S.	26	NW.	0	14	6	11	10	1	1	0	0	7	5	5	5	0	0	0	0	0	4
June	2.08	.88	.0	4.9	8.1	SW.	25	N.	0	12	9	9	8	8	0	0	0	4	4	4	8	0	0	0	0	0	3
July	5.94	4.25	.0	4.5	7.3	S.	25	NW.	0	11	16	4	8	5	0	0	0	4	3	3	11	0	0	0	0	0	8
August	2.87	1.37	.0	4.2	7.0	S.	23	S.	0	19	5	7	13	5	0	0	0	4	2	2	12	0	0	0	0	0	7
September	1.62	.72	.0	4.4	7.9	S.	34	S.	1	11	13	6	10	5	0	0	0	4	2	2	6	0	1	0	0	0	6
October	3.34	2.30	T	4.8	8.5	N.	27	NW.	0	11	12	8	10	6	2	0	2	5	3	3	5	0	0	0	6	0	7
November	.56	.51	.5	2.6	8.4	N.	35	NE.	1	22	5	3	3	3	4	1	0	0	0	0	0	0	0	0	22	0	1
December	4.16	1.79	10.2	5.0	8.8	NW.	31	S.	0	13	9	9	10	8	11	5	0	0	0	0	3	14	0	0	26	0	0
Year	42.59	4.25	72.4	4.7	8.0	N.	35	NE.	3	158	105	102	129	90	67	41	2	42	27	29	65	51	1	0	148	3	44

PORTLAND, OREG.

Airport [H=34 ft.; H_b=39 ft.; H_t=29 ft.; H_r=25 ft.; H_a=48 ft.] City [H=30 ft.; H_b=154 ft.; H_t=68 ft.; H_r=63 ft.; H_a=106 ft.]

January	4.69	1.04	T	8.8	6.7	SE.	21	W.	0	0	6	25	20	17	1	1	0	11	2	1	6	0	0	0	0	0	0
February	5.26	1.50	5.4	8.7	6.8	S.	24	S.	0	1	4	23	19	16	6	5	0	3	1	0	2	2	0	0	5	0	0
March	2.29	.51	T	6.3	6.5	NW.	23	W.	0	7	9	15	14	12	1	0	2	5	1	0	1	0	0	0	0	0	0
April	.55	.22	.0	6.8	6.0	NW.	22	SW.	0	6	8	16	9	5	0	0	0	0	0	0	0	0	0	0	0	0	1
May	1.08	.63	.0	6.4	6.0	NW.	17	SW.	0	8	5	18	10	4	0	0	0	1	1	0	0	0	2	2	0	0	2
June	1.73	.70	.0	6.8	6.3	NW.	15	NW.	0	8	4	18	10	7	0	0	1	0	0	0	0	0	0	0	0	0	1
July	.79	.68	.0	3.9	7.2	NW.	19	S.	0	18	6	7	4	3	0	0	0	0	0	0	0	0	6	3	0	0	0
August	1.52	.97	.0	3.5	6.6	NW.	19	NW.	0	16	9	6	6	5	0	0	0	2	0	0	0	0	5	3	0	0	2
September	.60	.28	.0	4.2	5.7	NW.	15	NW.	0	15	6	9	4	4	0	0	0	2	0	0	0	0	0	0	0	0	1
October	2.14	.68	.0	7.0	5.4	NW.	22	S.	0	7	6	18	13	8	0	0	0	16	2	0	2	0	0	0	0	0	0
November	1.73	.50	.0	7.6	5.1	SE.	20	S.	0	3	7	20	10	8	0	0	1	16	3	0	3	0	0	0	0	0	0
December	8.37	1.47	.0	9.1	6.0	SE.	22	S.	0	1	4	26	23	21	0	0	0	11	3	1	5	0	0	0	2	0	0
Year	30.75	1.50	5.4	6.6	6.2	NW.	24	S.	0	90	74	201	142	110	8	6	4	67	13	2	19	2	13	8	7	0	7

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

PROVIDENCE, R. I.

Airport [ϕ=41°44′ N.; λ=71°25′ W.] City [ϕ=41°50′ N.; λ=71°25′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	°	° (1)	°	°	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.81	30.35	29.04		26.3		29.9		24.0		26.8	34.9	21.4	28.2	51	4		19		20	19		72		66	69
February	29.90	30.48	29.20		29.3		35.5		27.3		32.5	42.1	24.4	33.2	64	8		23		27	25		77		71	74
March	29.87	30.35	29.16		31.5		36.5		28.9		33.1	42.1	27.1	34.6	61	7		23		27	25		71		68	70
April	29.75	30.32	29.04		41.6		45.4		38.1		41.4	53.6	37.2	45.4	71	27		33		36	35		72		72	72
May	29.79	30.14	29.30		56.2		58.2		50.8		52.5	69.4	48.2	58.8	90	36		46		47	47		70		68	69
June	29.81	30.12	29.55		64.9		66.7		58.6		59.7	75.6	57.7	66.6	88	49		54		54	54		70		67	68
July	29.81	30.13	29.48	64.4	70.6	81.6	71.9	62.4	65.6	69.1	66.2	82.3	63.3	72.8	92	54	61	63	62	63	62	90	77	53	74	73
August	29.82	30.15	29.60	67.4	72.1	82.0	72.6	66.3	68.3	70.8	68.3	83.0	67.0	75.0	92	60	66	66	65	66	66	94	83	60	81	80
September	29.88	30.40	29.47	56.9	61.0	71.4	62.3	55.3	58.1	62.2	58.6	73.8	54.7	64.2	91	44	54	56	56	56	56	91	84	61	81	79
October	29.84	30.24	29.09	47.8	49.3	61.0	51.5	46.1	47.1	53.1	48.5	62.7	44.7	53.7	86	30	44	44	45	45	45	87	84	60	80	78
November	29.95	30.39	29.06	35.6	34.7	46.5	38.8	32.4	31.7	38.8	34.4	48.0	32.4	40.2	61	21	27	27	28	27	27	70	72	49	63	63
December	29.64	30.25	29.07	30.2	28.7	38.2	33.7	27.9	26.7	33.2	30.6	41.1	26.8	34.0	56	5	23	22	24	24	23	73	76	56	68	68
Year	29.82	30.48	29.04	50.4	47.2	63.4	50.2	48.4	43.7	54.5	46.0	59.0	42.1	50.6	92	4	46	40	47	41	40	84	76	56	72	72

PUEBLO, COLO.

Airport [ϕ=38°16′ N.; λ=104°36′ W.] City [ϕ=38°18′ N.; λ=104°36′ W.]

	(1 3)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	25.21	25.72	24.60		28.3	42.9	41.5		24.5	34.4	34.1	46.4	22.5	34.4	69	5		18	23	24	22		65	48	53	55
February	25.17	25.59	24.68		20.4	34.8	36.8		17.8	28.2	29.8	39.7	14.8	27.2	65	−2		13	18	19	17		71	54	51	59
March	25.26	25.64	24.84		33.2	50.5	52.2		29.3	39.1	40.0	55.6	29.2	42.4	74	8		24	25	26	25		68	43	41	51
April	25.27	25.72	24.85		40.1	60.0	62.0		36.2	44.9	45.6	65.6	37.7	51.6	85	16		32	30	29	30		73	37	35	48
May	25.24	25.63	24.93		49.4	71.8	73.2		44.1	52.1	52.7	76.3	47.6	62.0	91	40		39	35	35	36		69	30	30	43
June	25.24	25.53	24.88		57.6	81.0	83.0		49.9	57.6	57.0	86.9	56.3	71.6	99	48		43	40	36	40		63	26	22	37
July	25.33	25.59	25.07	70.7	61.6	87.4	88.4	57.7	53.7	63.5	63.1	92.6	62.3	77.4	102	54	49	48	50	48	49	49	64	29	28	42
August	25.34	25.65	25.06	68.1	58.6	82.7	81.9	56.8	52.3	61.5	61.0	87.9	58.4	73.2	95	48	49	48	49	48	48	53	69	33	34	47
September	25.34	25.76	24.98	63.7	55.8	78.2	78.2	52.5	48.1	57.4	57.9	83.0	54.9	69.0	96	38	44	41	43	44	43	52	61	32	33	44
October	25.29	25.59	24.89	46.5	40.8	66.2	65.3	36.2	33.1	47.0	46.2	71.3	38.5	54.9	85	16	23	23	26	26	24	40	50	24	25	35
November	25.45	25.70	25.06	31.0	26.2	53.5	47.7	26.8	23.3	39.4	36.6	58.1	25.5	41.8	73	15	20	18	22	22	20	63	71	31	38	51
December	25.30	25.67	25.04	27.7	23.6	47.2	40.4	22.6	19.6	35.0	30.7	53.4	19.6	36.5	78	−10	14	12	18	17	15	57	63	37	43	50
Year	25.29	25.76	24.60		41.3	63.0	62.6		36.0	46.7	46.2	68.1	38.9	53.5	102	−10		30	32	31	31		66	35	36	47

RALEIGH, N. C.

Airport [ϕ=35°45′ N.; λ=78°37′ W.] City [ϕ=35°45′ N.; λ=78°37′ W.]

	(1 4)	(1 4)	(1 4)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.66	30.11	29.04		39.7		49.3		37.3		43.3	55.4	36.7	46.0	71	25		34		36	35		81		62	72
February	29.72	30.19	29.16		44.1		52.9		42.2		48.9	61.5	40.6	51.0	76	20		40		44	42		85		74	80
March	29.68	30.17	29.02		46.6		58.3		43.3		51.4	66.0	43.8	54.9	87	27		40		45	42		78		65	72
April	29.59	30.08	29.18		52.9		63.4		49.4		53.8	70.9	49.1	60.0	86	35		46		45	46		78		55	66
May	29.61	29.84	29.25		62.7		71.9		58.9		63.8	79.0	58.2	68.6	94	34		56		58	57		80		66	73
June	29.64	29.82	29.37		73.9		80.1		70.1		73.0	88.5	69.8	79.2	97	67		68		70	69		83		73	78
July	29.60	29.79	29.28	70.7	72.8	85.4	79.4	69.0	70.0	74.5	73.1	86.6	68.5	77.6	93	63	68	68	70	70	70	92	87	61	75	79
August	29.59	29.84	29.32	71.6	73.1	85.2	77.1	70.6	71.1	75.3	73.4	86.5	69.3	77.9	93	60	70	70	71	72	71	95	91	65	84	84
September	29.65	30.01	29.38	67.6	67.2	83.1	74.8	65.4	64.8	71.3	69.6	84.3	65.2	74.8	99	56	64	63	66	67	65	89	88	56	77	78
October	29.68	30.06	29.20	57.2	54.7	72.4	63.1	54.7	52.9	61.4	58.0	74.3	53.0	63.6	92	37	52	51	54	54	53	85	88	56	74	76
November	29.81	30.13	29.46	43.3	40.3	57.0	47.7	39.0	37.3	46.5	42.2	58.4	40.7	49.6	74	30	33	33	34	36	34	69	75	47	65	64
December	29.59	30.11	29.19	39.7	36.3	50.8	44.0	36.4	33.9	42.4	39.3	53.1	36.3	44.7	70	27	32	30	32	33	32	74	78	51	67	68
Year	29.66	30.19	29.02		55.4		63.5		52.6		57.5	72.0	52.6	62.3	99	20		50		53	51		83		70	74

RAPID CITY, S. DAK.

Airport [ϕ=44°11′ N.; λ=103°05′ W.] City [ϕ=44°04′ N.; ϕ=103°12′ W.]

	(1 5)	(1 5)	(1 5)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	26.49	27.00	26.13	28.2	30.1	37.5	36.3	24.8	25.4	31.2	30.3	43.2	21.5	32.4	64	3	18	17	22	21	20	66	59	54	56	59
February	26.53	26.99	26.17	13.0	12.5	20.7	22.1	11.6	10.5	17.8	18.7	28.8	5.1	17.0	61	−26	8	6	13	12	10	81	76	72	70	78
March	26.60	26.99	26.23	30.0	29.5	41.0	43.1	26.9	25.6	33.2	34.7	47.0	25.0	36.0	78	5	22	20	24	24	22	75	70	60	55	65
April	26.59	27.02	26.17	41.3	39.7	52.6	54.4	36.0	34.5	41.8	43.0	57.9	35.1	46.5	87	14	30	28	30	31	30	67	65	48	46	56
May	26.54	26.94	26.15	55.5	53.5	70.0	70.4	47.9	46.6	53.4	54.8	74.4	50.6	62.5	97	40	41	40	36	42	40	62	62	36	41	50
June	26.54	26.85	26.16	57.6	55.3	70.7	72.6	51.0	49.7	55.8	56.4	75.7	52.2	64.0	96	40	46	45	44	44	45	68	70	43	41	56
July	26.62	26.90	26.29	70.3	64.7	86.0	85.5	58.5	56.4	63.6	63.0	90.9	63.6	77.2	105	56	50	50	49	46	49	52	62	30	25	42
August	26.65	26.95	26.39	64.9	59.4	80.3	81.2	53.7	51.6	59.2	58.8	85.0	58.1	71.6	98	44	45	45	44	42	44	52	62	32	29	44
September	26.64	27.14	26.26	58.2	54.6	73.6	73.4	47.9	46.0	54.2	53.9	79.2	51.4	65.3	94	30	38	38	38	37	38	52	57	34	33	44
October	26.62	26.98	26.21	44.4	39.7	55.8	53.1	39.2	36.1	44.4	43.5	60.7	37.6	49.2	76	28	33	32	32	33	32	68	74	44	49	59
November	26.78	27.12	26.26	36.2	33.9	51.5	43.3	29.9	28.1	38.7	34.3	55.7	31.8	43.8	70	11	20	18	21	21	20	51	51	33	41	44
December	26.61	26.91	26.19	32.5	30.8	43.3	35.3	27.0	25.6	33.1	28.6	48.0	25.3	36.6	79	3	18	17	18	18	18	60	60	44	55	55
Year	26.60	27.14	26.13	44.3	42.0	56.9	56.1	37.9	36.3	43.9	43.3	62.2	38.1	50.2	105	−26	31	30	31	31	31	63	64	44	45	54

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 159 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 4,690 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 376 feet.
[5] Pressure at airport adjusted to the old (city) station elevation of 3,259 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

PROVIDENCE, R. I.

Airport [H=54 ft.; H_b=62 ft.; H_t=57 ft.; H_r=53 ft.; H_a=78 ft.] City [H=8 ft.; H_b=159 ft.; H_t=215 ft.; H_r=211 ft.; H_a=251 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.30	0.83	7.3	6.4	13.1	NW.	45	NW.	7	10	4	17	10	8	13	5	0	2	1	0	1	12	0	0	23	0	1
February	4.09	.94	5.0	6.1	11.8	NW.	52	NW.	6	9	5	14	12	11	10	6	0	7	3	1	1	3	0	0	23	0	1
March	4.62	1.00	16.5	5.4	13.0	NW.	45	NW.	5	11	8	12	14	12	11	4	0	7	6	1	4	4	0	0	21	0	0
April	4.33	1.44	T	6.8	12.0	NW.	45	NW.	4	4	11	15	14	10	4	1	0	10	2	2	2	0	0	0	7	0	3
May	.57	.31	.0	5.1	10.4	NW.	33	NW.	1	11	12	8	6	4	0	0	0	6	1	0	0	0	1	0	0	0	3
June	2.70	.83	.0	4.8	10.5	S.	33	NW.	1	12	11	7	9	8	0	0	0	9	2	0	0	0	0	0	0	0	5
July	1.07	.52	.0	4.7	10.0	NW.	38	NW.	1	12	12	7	8	5	0	0	1	10	5	0	2	0	3	0	0	0	5
August	4.08	.94	.0	5.7	10.1	S.	33	SE.	1	9	10	12	9	7	0	0	0	13	0	0	0	0	1	0	0	0	4
September	2.39	1.42	.0	4.8	10.4	SW.	30	NW.	0	15	2	13	9	7	0	0	0	5	2	0	2	0	1	0	0	0	5
October	4.31	3.31	.0	5.3	11.6	NW.	38	NW.	5	11	8	12	11	10	0	0	0	7	3	1	1	0	0	0	2	0	1
November	.76	.75	T	3.9	12.6	NW.	40	NW.	3	17	6	7	2	1	4	0	0	0	0	0	0	0	0	0	14	0	0
December	3.12	1.41	6.5	6.5	12.5	NW.	49	NW.	4	7	7	17	7	6	7	2	0	6	3	0	1	5	0	0	20	0	0
Year	34.34	3.31	35.3	5.5	11.5	NW.	52	NW.	6	128	96	141	111	89	49	18	1	82	28	5	14	24	6	0	110	0	28

PUEBLO, COLO.

Airport [H=4,799 ft.; H_b=4,806 ft.; H_t=5 ft.; H_r=3 ft.; H_a=36 ft.] City [H=4,668 ft.; H_b=4,690 ft.; H_t=79 ft.; H_r=72 ft.; H_a=86 ft.]

January	1.20	0.74	9.2	4.7	7.1	NW.	32	NW.	1	11	12	8	12	9	10	10	0	0	0	0	0	2	0	0	30	0	0
February	1.42	.88	17.8	4.3	7.8	NW.	32	NW.	2	14	7	7	10	6	11	10	0	0	0	0	0	8	0	0	28	2	0
March	.57	.34	.6	4.0	7.9	NW.	30	NW.	0	18	7	6	7	4	4	3	0	0	0	0	0	2	0	0	20	0	1
April	2.04	1.61	7.7	5.4	7.7	NW.	31	NW.	0	10	11	9	5	5	4	4	1	0	0	0	0	0	0	0	8	0	1
May	1.51	1.23	.0	4.4	7.5	E.	30	NW.	0	16	8	7	7	5	0	0	0	0	0	0	0	0	2	0	0	0	4
June	.05	.02	.0	3.0	8.1	E.	34	SW.	3	20	10	0	3	0	0	0	0	0	0	0	0	0	11	3	0	0	9
July	.13	.07	.0	4.2	7.5	E.	27	NE.	0	16	11	4	5	1	0	0	0	0	0	0	0	0	24	11	0	0	7
August	.68	.42	.0	4.2	6.7	E.	26	NE.	0	16	12	3	7	4	0	0	0	0	0	0	0		8	1	0	0	11
September	.32	.12	.0	4.1	6.2	E.	28	NE.	0	13	13	4	5	4	0	0	0	1	0	0	1	0	10	4	0	0	3
October	.02	.02	T	2.3	7.2	E.	34	W.	1	24	4	3	1	0	1	1	0	0	0	0	0	0	0	0	9	0	0
November	.51	.48	T	2.6	4.9	NW.	18	SE.	0	19	8	3	3	1	1	0	0	0	0	0	0	0	0	0	27	0	0
December	.41	.27	5.3	4.0	5.2	NW.	26	W.	0	15	11	5	4	3	5	4	0	1	0	0	0	5	0	0	28	4	0
Year	8.86	1.61	40.6	3.9	7.0	NW.	34	SW.	7	192	114	59	69	42	36	32	1	2	0	0	1	17	65	19	150	6	36

RALEIGH, N. C.

Airport [H=363 ft.; H_b=358 ft.; H_t=5 ft.; H_r=3 ft.; H_a=58 ft.] City [H=345 ft.; H_b=376 ft.; H_t=103 ft.; H_r=94 ft.; H_a=146 ft.]

January	2.75	0.90	2.0	4.5	9.0	NW.	30	NW.	0	13	8	10	9	8	2	1	0	8	5	0	1	0	0	0	9	0	0
February	9.73	2.73	.0	5.6	9.9	SW.	36	W.	1	8	9	11	13	13	0	0	1	6	2	0	1	0	0	0	6	0	1
March	2.61	.63	T	4.1	10.1	SW.	27	NW.	0	15	11	5	11	9	1	0	0	6	3	0	2	0	0	0	3	0	2
April	3.57	.88	.0	4.1	10.5	SW.	30	NW.	0	14	10	6	8	7	0	0	0	6	3	2	0	0	0	0	0	0	4
May	6.26	2.57	T	4.3	8.3	SW.	34	W.	1	12	15	4	11	9	1	0	2	5	2	0	0	0	2	0	0	0	5
June	3.84	1.45	.0	5.7	7.5	SW.	33	NW.	2	7	14	9	10	9	0	0	0	3	0	0	0	0	12	1	0	0	9
July	8.31	2.82	.0	6.0	7.3	SW.	32	N.	1	6	15	10	13	12	0	0	0	7	1	1	0	0	7	0	0	0	10
August	9.99	3.01	.0	6.2	6.9	SW.	30	SW.	0	4	16	11	12	12	0	0	0	10	3	1	0	0	9	0	0	0	10
September	2.35	2.10	.0	4.3	7.7	NE.	20	N.	0	12	15	3	6	4	0	0	0	5	3	2	0	0	6	3	0	0	4
October	3.03	1.96	.0	5.0	8.1	SW.	27	NW.	0	11	12	8	7	5	0	0	0	5	3	2	2	0	2	0	0	0	1
November	1.75	1.11	.0	4.3	9.2	N.	27	NW.	0	12	9	9	7	5	0	0	0	2	0	0	0	0	0	0	2	0	1
December	2.24	.90	1.0	5.1	9.2	W.	25	NW.	0	10	11	10	12	8	2	1	0	2	0	0	0	0	0	0	7	0	1
Year	56.43	3.01	3.0	4.9	8.6	SW.	36	W.	5	124	145	96	121	109	6	2	3	65	25	8	6	0	38	4	27	0	48

RAPID CITY, S. DAK.

Airport [H=3,215 ft.; H_b=3,218 ft.; H_t=5 ft.; H_r=5 ft.; H_a=56 ft.] City [H=3,242 ft.; H_b=3,259 ft.; H_t=50 ft.; H_r=43 ft.; H_a=58 ft.]

January	0.38	0.40	3.9	6.0	8.5	NW.	34	NW.	1	7	16	8	5	1	9	5	0	1	1	0	0	3	0	0	28	0	0
February	.35	.08	5.5	5.7	7.9	N.	32	NW.	1	6	12	10	8	4	13	8	0	0	0	0	0	14	0	0	27	11	0
March	.84	.33	9.0	4.9	7.5	W.	32	NW.	1	12	11	8	9	4	12	8	0	3	3	0	1	7	0	0	23	0	0
April	.74	.20	4.2	6.0	10.4	N.	36	NW.	2	8	9	13	12	8	8	6	0	0	0	0	0	0	0	0	13	0	0
May	1.04	.49	.0	5.2	7.9	N.	36	NW.	1	12	9	10	12	9	0	0	2	1	0	0	0	0	2	2	0	0	11
June	2.16	.74	.0	4.9	8.7	N.	30	W.	0	9	14	7	11	11	0	0	1	0	0	0	0	0	4	1	0	0	8
July	1.78	.73	.0	3.2	7.6	W.	29	N.	0	18	12	1	7	7	0	0	4	0	0	0	0	0	16	8	0	0	11
August	1.28	.49	.0	3.8	7.9	W.	32	SW.	2	16	11	4	9	8	0	0	0	0	0	0	0	0	12	3	0	0	12
September	.80	.48	T	4.0	7.8	W.	32	NW.	1	14	11	5	5	4	1	1	0	0	0	0	0	0	8	0	3	0	2
October	1.34	.56	1.2	5.0	7.8	N.	29	NE.	0	10	14	7	9	4	7	4	0	1	0	0	0	0	0	0	9	0	2
November	T	T	.0	2.4	8.8	W.	32	NW.	2	21	6	3	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0
December	.31	.19	2.7	4.6	8.1	NW.	35	N.	4	15	7	9	5	2	9	4	0	0	0	0	0	6	0	0	18	0	0
Year	11.02	.74	26.5	4.6	8.2	N.	36	NW.	15	148	132	85	92	62	59	36	7	6	4	0	1	30	42	14	135	11	46

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

READING, PA.

[ϕ=40°20′ N.; λ=75°58′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	° (1)	°	°	°	° (1)	°	°	°	■	°	°	°	°	° (1)	°	°	%	%	% (1)	%	%
January	29.69	30.08	29.06	----	30.0	35.4	33.9	----	26.9	30.5	29.7	39.9	26.2	33.0	58	8	----	20	22	22	21	----	67	56	62	64
February	29.76	30.32	28.89	----	32.9	40.4	39.5	----	29.9	34.9	34.2	46.3	28.9	37.6	69	12	----	24	26	25	24	----	68	57	58	63
March	29.73	30.26	29.14	----	35.4	43.9	43.1	----	31.5	37.4	37.4	49.3	31.2	40.2	80	17	----	25	28	28	27	----	64	54	57	61
April	29.60	30.02	29.18	----	45.1	53.0	50.9	----	40.5	45.6	44.5	57.7	40.3	49.0	84	28	----	34	37	37	36	----	66	57	62	64
May	29.62	29.94	29.09	----	60.1	72.0	70.1	----	53.6	58.7	59.0	76.3	55.5	65.9	93	38	----	48	48	50	49	----	65	44	52	58
June	29.64	29.90	29.31	----	67.6	77.2	74.2	----	61.9	65.3	64.4	81.1	61.9	71.5	96	53	----	58	58	58	58	----	73	54	60	67
July	29.63	29.91	29.28	----	69.8	80.8	77.1	----	56.7	67.3	66.7	83.2	65.1	74.2	95	55	----	61	59	60	61	----	74	50	59	67
August	29.63	29.93	29.41	----	68.9	82.2	77.7	----	66.3	70.2	67.0	84.4	67.0	75.7	91	62	----	64	64	65	64	----	78	56	65	71
September	29.71	30.20	29.27	----	62.0	74.5	69.1	----	58.3	63.2	61.5	76.4	57.7	67.0	96	44	----	56	56	56	56	----	80	54	65	73
October	29.71	30.15	29.17	----	51.1	61.8	56.1	----	47.3	51.9	50.6	64.8	47.1	56.0	88	33	----	43	42	44	43	----	75	52	61	68
November	29.85	30.19	29.49	----	39.0	49.2	45.1	----	33.9	39.5	37.0	51.7	35.8	43.8	68	28	----	26	26	25	25	----	57	40	45	51
December	29.55	30.14	29.09	----	34.5	39.7	37.6	----	30.7	34.3	32.8	42.3	30.8	36.6	62	15	----	24	25	24	24	----	64	57	57	61
Year	29.68	30.32	28.89	----	49.7	----	56.2	----	44.8	----	48.7	62.8	45.6	54.2	96	8	----	40	41	41	41	----	69	53	59	64

REDDING, CALIF. (Airport)

[ϕ=40°35′ N.; λ=122°24 W.]

January	----	29.70	28.88	45.4	43.7	47.7	54.6	40.2	38.6	41.1	44.6	56.3	39.6	48.0	72	30	34	32	33	33	33	66	66	60	49	60
February	----	29.83	28.83	43.8	40.4	46.6	53.5	37.3	35.1	38.4	41.8	54.8	36.9	45.8	73	28	28	27	27	26	27	57	61	50	40	52
March	----	29.63	29.03	53.3	48.8	56.5	64.1	46.5	44.0	47.9	51.1	64.9	46.2	55.6	84	33	39	38	39	38	38	62	69	56	45	58
April	----	29.49	28.99	64.3	56.1	68.3	76.6	50.8	46.9	52.6	54.6	77.7	53.2	65.4	92	44	37	37	37	33	36	39	50	34	22	36
May	----	29.46	28.92	66.9	58.3	71.4	77.7	53.4	49.3	54.8	56.9	79.4	55.7	67.6	97	44	41	40	40	38	40	43	55	35	30	41
June	----	29.33	28.94	74.7	65.0	78.4	86.4	55.6	51.7	57.3	59.9	87.9	63.1	75.5	102	49	39	39	39	38	39	29	40	26	20	29
July	----	29.31	28.89	82.6	71.7	86.0	95.6	60.3	56.4	62.1	63.9	96.9	69.5	83.2	109	60	43	44	44	40	43	27	39	26	17	27
August	29.10	29.28	28.91	82.4	71.3	85.8	96.3	58.7	54.9	61.4	63.2	96.9	68.5	82.7	107	56	39	40	43	37	40	22	34	23	13	23
September	29.13	29.42	28.72	72.4	65.9	77.4	85.4	56.3	54.1	58.8	60.5	87.3	63.2	75.2	102	50	42	43	43	39	42	39	48	37	27	38
October	29.24	29.58	28.77	63.8	58.2	69.6	76.3	51.2	48.5	53.3	55.8	78.5	55.5	67.0	92	37	39	38	38	38	38	43	51	35	29	40
November	29.32	29.51	29.06	55.5	51.1	60.8	68.5	44.5	41.9	47.1	50.8	70.7	48.2	59.4	85	41	31	30	31	32	31	41	46	35	28	38
December	29.34	29.59	28.70	48.5	75.9	49.6	54.3	44.0	42.5	44.7	47.2	56.8	43.0	49.9	74	36	39	38	39	40	39	70	76	70	62	70
Year	----	29.83	28.70	62.8	56.4	66.5	74.1	49.9	47.0	51.6	54.2	75.7	53.6	64.6	109	28	38	37	38	36	37	45	53	41	32	43

RENO, NEV.

Airport [ϕ=39°30′ N.; λ=119°47′ W.] City [ϕ=39°32′ N.; λ=119°49′ W.]

	(2 3)	(2 3)	(2 3)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)						(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
January	25.51	25.92	25.08	----	29.6	----	43.8	----	26.6	----	36.6	46.5	25.8	36.2	65	18	----	22	----	27	24	----	73	----	54	63
February	25.49	25.91	24.92	----	27.3	----	40.1	----	24.3	----	33.3	43.2	22.5	32.8	56	10	----	20	----	24	22	----	72	----	54	63
March	25.46	25.78	25.19	----	36.5	----	54.5	----	32.9	----	42.4	57.1	33.5	45.3	71	16	----	28	----	30	29	----	72	----	41	56
April	25.49	25.80	25.22	----	43.1	----	66.8	----	37.4	----	47.7	69.4	40.3	54.8	80	32	----	31	----	28	30	----	62	----	24	43
May	25.44	25.59	25.24	----	46.7	----	69.1	----	40.6	----	49.7	72.6	44.7	58.6	88	36	----	34	----	31	33	----	63	----	26	44
June	25.43	25.68	25.16	----	51.4	----	76.5	----	42.7	----	52.9	79.3	48.9	64.1	92	33	----	34	----	33	33	----	53	----	22	37
July	25.49	25.66	25.30	67.4	51.7	81.5	87.5	53.6	47.2	57.8	59.3	89.6	56.8	73.2	100	46	43	43	40	39	41	43	74	25	20	40
August	25.48	25.59	25.30	68.1	52.6	81.0	89.4	53.4	47.4	57.6	59.4	91.4	57.2	74.3	97	47	42	43	40	37	40	40	71	25	18	45
September	25.48	25.73	25.14	55.9	45.0	69.7	76.1	47.9	42.2	53.6	54.7	78.1	47.9	63.0	89	35	41	40	41	37	40	60	82	38	28	52
October	25.54	25.87	25.02	43.2	35.7	56.4	64.3	39.0	33.9	46.2	48.6	67.3	37.2	52.2	79	21	35	32	37	34	34	73	87	50	36	62
November	25.59	25.74	25.37	33.1	25.1	47.8	57.6	29.7	24.0	38.8	43.4	61.2	28.9	45.0	72	22	30	22	29	28	27	71	88	48	33	60
December	25.54	25.76	25.10	35.1	30.4	42.2	49.6	31.4	27.7	36.3	40.0	52.8	29.7	41.2	67	14	27	24	29	29	27	74	83	63	48	67
Year	25.50	25.92	24.92	----	39.6	----	64.6	----	35.6	----	47.3	67.4	39.4	53.4	100	10	----	31	----	31	32	----	73	----	34	53

RICHMOND, VA.

Airport [ϕ=37°30′ N.; λ=77°20′ W.] City [ϕ=37°32′ N.; λ=77°27′ W.]

	(2 4)	(2 4)	(2 4)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)						(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
January	29.92	30.37	29.20	----	36.5	46.8	43.9	----	----	40.1	----	51.5	33.1	42.3	68	17	----	30	31	30	30	----	77	57	61	69
February	29.98	30.51	29.33	----	39.9	49.5	47.6	----	----	43.1	----	55.5	35.5	45.5	76	19	----	34	35	36	35	----	79	58	65	72
March	29.94	30.49	29.31	----	42.1	53.8	52.5	----	----	45.9	----	59.7	39.2	49.4	84	25	----	36	37	35	36	----	78	56	56	67
April	29.83	30.30	29.37	----	50.0	62.9	59.8	----	----	51.9	----	67.6	45.9	56.8	87	33	----	42	41	41	42	----	76	48	54	65
May	29.86	30.13	29.40	----	61.2	74.5	70.1	----	----	61.6	----	79.0	56.5	67.8	93	42	----	54	52	54	54	----	77	48	59	68
June	29.85	30.09	29.58	----	72.0	82.5	77.9	----	----	71.1	----	86.1	67.8	77.0	93	62	----	66	66	66	66	----	81	59	68	75
July	29.83	30.05	29.50	69.3	71.1	82.8	75.8	67.7	68.3	72.1	71.4	84.8	67.7	76.2	94	60	67	67	67	70	68	92	87	61	81	84
August	29.82	30.09	29.57	70.5	71.9	84.1	76.3	69.4	69.8	73.5	72.6	86.3	69.4	77.8	95	63	69	69	69	71	70	94	91	61	84	87
September	29.90	30.31	29.58	64.2	64.6	81.5	71.1	62.7	62.8	69.1	67.3	82.9	62.7	72.8	96	53	62	62	62	65	63	93	91	54	83	87
October	29.92	30.38	29.38	53.6	52.3	69.0	58.3	51.7	51.0	58.0	54.5	71.4	49.8	60.6	92	35	50	50	50	51	51	88	91	54	80	85
November	30.06	30.37	29.68	39.1	36.6	54.8	43.8	36.7	34.5	44.2	39.5	57.0	36.3	46.6	74	29	33	32	31	34	33	80	82	46	70	76
December	29.80	30.36	29.38	36.5	34.0	48.6	41.0	33.4	31.9	40.3	36.2	51.2	31.5	41.4	69	19	29	28	29	29	29	74	80	49	64	72
Year	29.89	30.51	29.20	----	52.7	65.9	59.8	----	----	55.9	----	69.4	49.6	59.5	96	17	----	48	48	48	48	----	82	54	69	76

[1] Noon local time January to June, inclusive.
[2] Airport data beginning with July.
[3] Pressure at airport adjusted to the old (city) station elevation of 4,527 feet.
[4] Pressure at airport adjusted to the old (city) station elevation of 144 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

READING, PA.

[H=273 ft.; H_b=323 ft.; H_t=283 ft.; H_r=275 ft.; H_a=306 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	3.44	1.49	16.1	6.5	11.6	NW.	48	NW.	7	8	7	16	13	10	10	7	0	5	0	0	0	8	0	0	21	0	1
February	4.55	1.40	.9	6.1	13.1	NW.	53	SE.	12	7	9	12	10	10	3	2	0	5	0	1	0	1	0	0	13	0	0
March	2.59	.63	3.3	5.9	13.1	NW.	41	NW.	7	7	13	11	12	11	7	4	0	6	0	0	0	1	0	0	19	0	3
April	3.27	1.40	.1	6.8	13.2	NW.	42	NW.	6	4	13	13	16	12	2	1	0	5	2	3	2	0	0	0	3	0	5
May	1.39	1.26	.0	4.3	10.6	NW.	29	W.	0	14	10	7	3	2	0	0	0	2	0	0	0	0	2	0	0	0	2
June	4.38	3.00	.0	6.2	10.3	SE.	44	E.	3	6	13	11	12	11	0	0	0	2	0	0	0	0	3	1	0	0	4
July	3.43	1.37	.0	5.2	9.7	NW.	31	NE.	0	9	12	10	8	7	0	0	1	1	0	0	0	0	3	0	0	0	6
August	3.38	1.43	.0	5.7	9.1	SE.	35	E.	1	10	8	13	10	8	0	0	0	3	0	0	0	0	4	0	0	0	6
September	2.55	.98	.0	5.2	9.1	S.	32	N.	1	13	7	10	9	7	0	0	0	2	0	0	0	0	1	1	0	0	3
October	4.03	1.73	.0	5.2	10.0	NW.	42	NW.	5	12	8	11	9	7	0	0	0	7	0	0	1	0	0	0	0	0	3
November	.59	.59	T	4.1	11.5	NW.	38	NW.	6	15	9	6	1	1	2	0	0	0	0	0	0	0	0	0	6	0	0
December	2.70	.88	6.5	7.3	13.2	NW.	44	NW.	8	3	11	17	9	8	9	5	0	4	0	0	0	4	0	0	16	0	0
Year	36.30	3.00	26.9	5.7	11.2	NW.	53	SE.	56	108	120	137	112	94	33	19	1	42	2	4	3	14	13	2	78	0	33

REDDING, CALIF. (Airport)

[H=718 ft.; H_b=722 ft.; H_t=20 ft.; H_r=3 ft.; H_a=34 ft.]

January	3.88	2.35	0.0	7.2	8.1	NW.	28	S.	0	6	6	19	8	7	0	0	0	5	3	3	2	0	0	0	1	0	0
February	1.60	.70	5.5	5.7	8.1	NW.	28	NW.	0	11	3	14	7	6	4	4	0	5	4	3	0	0	0	0	7	0	0
March	3.67	1.28	.0	4.6	8.3	NW.	31	SE.	0	17	4	10	10	9	0	0	1	1	0	0	0	0	0	0	0	0	0
April	.11	.07	.0	5.0	8.4	NW.	29	NW.	0	9	13	8	2	2	0	0	0	0	0	0	0	0	1	0	0	0	2
May	4.28	2.75	.0	4.4	8.3	NW.	25	NW.	0	13	11	7	6	5	0	0	2	0	0	0	0	0	5	1	0	0	4
June	.04	.04	.0	2.9	9.8	NW.	32	NW.	1	20	6	4	1	1	0	0	0	0	0	0	0	0	17	7	0	0	0
July	.96	.95	.0	1.7	8.0	NW.	26	NW.	0	24	5	2	2	1	0	0	0	0	0	0	0	0	25	21	0	0	2
August	0	0	.0	1.4	7.4	NW.	25	NW.	0	26	3	2	0	0	0	0	0	0	0	0	0	0	26	22	0	0	1
September	.92	.54	.0	3.8	7.7	NW.	23	NW.	0	17	6	7	5	5	0	0	0	1	0	0	0	0	18	8	0	0	5
October	.74	.44	.0	2.8	7.6	NW.	26	NW.	0	21	3	7	3	3	0	0	1	2	0	0	0	0	4	0	0	0	2
November	.16	.16	.0	4.4	7.8	NW.	21	NW.	0	13	10	7	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0
December	9.07	4.37	.0	7.4	6.9	NW.	42	SE.	2	7	3	21	14	11	0	0	0	10	7	5	1	0	0	0	0	0	1
Year	25.43	4.37	5.5	4.3	8.0	NW.	42	SE.	3	184	73	108	59	51	4	4	4	25	14	11	3	0	96	59	8	0	17

RENO, NEV.

Airport [H=4,396 ft.; H_b=4,400 ft.; H_t=20 ft.; H_r=18 ft.; H_a=46 ft.] City [H=4,493 ft.; H_b=4,527 ft.; H_t=61 ft.; H_r=53 ft.; H_a=76 ft.]

January	1.32	0.65	2.0	5.1	6.2	SW.	29	W.	0	11	10	10	5	4	6	4	0	0	0	0	0	1	0	0	29	0	0
February	.23	.14	1.7	5.1	7.0	W.	30	W.	0	10	9	9	3	2	10	3	0	0	0	0	0	1	0	0	28	0	0
March	.90	.40	2.0	4.4	7.3	W.	35	W.	1	13	11	7	7	4	4	3	0	0	0	0	0	0	0	0	12	0	2
April	.11	.11	1.0	3.0	7.5	W.	23	W.	0	17	11	2	1	1	1	1	0	0	0	0	0	0	0	0	1	0	0
May	.64	.62	T	3.4	7.6	W.	27	W.	0	16	13	2	4	1	1	0	0	0	0	0	0	0	0	0	0	0	2
June	.06	.06	T	2.3	7.9	W.	31	W.	0	22	8	0	1	1	1	0	0	0	0	0	0	0	3	0	0	0	0
July	.62	.46	.0	2.5	7.1	W.	30	W.	0	21	7	3	4	3	0	0	0	0	0	0	0	0	18	8	0	0	5
August	.48	.46	.0	1.9	6.5	W.	29	S.	0	24	6	1	2	1	0	0	1	0	0	0	0	0	22	8	0	0	4
September	.84	.34	.0	3.3	5.6	W.	27	S.	0	17	10	3	7	4	0	0	0	0	0	0	0	0	0	0	0	0	5
October	.82	.55	T	2.9	5.6	W.	33	NW.	1	20	6	5	5	3	2	1	0	0	0	0	0	0	0	0	2	0	0
November	.06	.06	.0	2.2	4.4	W.	20	W.	0	23	4	3	2	1	0	0	0	0	0	0	0	0	0	0	24	0	0
December	.34	.15	.3	5.2	5.2	W.	30	S.	0	18	9	9	5	4	1	1	0	0	0	0	3	0	0	0	21	0	0
Year	6.42	.65	7.0	3.4	6.5	W.	35	W.	2	207	104	54	46	29	26	13	1	0	0	0	3	2	43	16	117	0	18

RICHMOND, VA.

Airport [H=160 ft.; H_b=164 ft.; H_t=5 ft.; H_r=4 ft.; H_a=53 ft.] City [H=162 ft.; H_b=144 ft.; H_t=11 ft.; H_r=3 ft.; H_a=52 ft.]

January	2.64	0.82	1.2	4.9	8.6	SW.	32	NW.	1	15	6	10	9	7	4	3	0	6	1	0	0	0	0	0	13	0	1
February	3.87	.78	.0	5.8	9.2	SW.	33	SW.	1	11	3	14	11	10	0	0	0	6	1	2	0	0	0	0	10	0	0
March	4.39	1.05	.3	5.0	8.9	SW.	27	W.	0	13	6	12	10	10	1	1	0	4	2	1	0	0	0	0	6	0	3
April	3.00	1.15	.0	4.9	10.3	SW.	32	SW.	1	13	7	10	14	10	0	0	0	2	0	0	0	0	0	0	0	0	4
May	1.80	.91	.0	4.1	7.6	SW.	29	NW.	0	16	8	7	8	6	0	0	1	0	0	0	0	0	1	0	0	0	6
June	4.99	1.79	.0	4.8	7.5	SW.	26	NW.	0	12	8	10	10	7	0	0	0	0	0	0	0	0	9	0	0	0	6
July	4.33	1.28	.0	5.7	6.7	SW.	32	N.	1	9	12	10	12	9	0	0	0	1	1	1	1	0	3	0	0	0	10
August	5.84	2.60	.0	5.3	6.6	SW.	21	SE.	0	13	7	11	12	10	0	0	0	2	1	2	2	0	11	1	0	0	9
September	1.56	.64	.0	4.0	6.4	SW.	28	NW.	0	14	11	5	7	5	0	0	0	9	6	4	3	0	3	1	0	0	4
October	4.33	2.20	.0	4.3	7.3	SW.	24	NW.	0	15	8	8	7	4	0	0	0	1	1	1	1	0	2	0	0	0	1
November	2.41	1.50	T	4.4	8.0	NE.	23	N.	0	15	4	11	6	6	1	0	0	4	2	2	0	0	0	0	6	0	0
December	1.50	.48	3.3	4.6	8.5	SW.	30	W.	0	15	8	8	9	7	4	4	0	4	2	2	1	0	0	0	18	0	0
Year	40.66	2.60	4.8	4.8	8.0	SW.	33	SW.	4	161	88	116	115	91	10	8	1	39	17	15	8	0	29	2	53	0	44

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ROCHESTER, N. Y.

Airport [ϕ=43°07′ N.; λ=77°40′ W.] City [ϕ=43°08′ N.; λ=77°42′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	°	° (1)	° (1 3)	° (1)	▪	° (1)	° (1 3)	° (1)	°	▪	°	°	°	° (1)	° (1 3)	° (1)	° (1)	%	% (1)	% (1 3)	% (1)	% (1)
January	29.43	29.82	28.76		23.8	26.2	26.6		22.3	24.3	24.4	33.2	18.9	26.0	56	0		20	21	20	20		83	80	77	80
February	29.46	30.05	28.83		25.3	29.4	28.5		23.6	26.7	26.1	34.6	19.6	27.1	52	2		20	22	21	21		81	72	74	77
March	29.49	30.02	28.85		28.6	33.0	31.1		26.2	29.1	28.0	37.7	24.6	31.2	71	8		22	22	23	22		74	63	70	72
April	29.36	29.77	28.94		38.9	45.6	42.0		35.8	39.8	38.2	49.3	34.8	42.0	77	24		32	33	33	33		75	62	72	73
May	29.41	29.71	28.80		55.5	64.9	62.2		48.9	53.1	51.7	69.1	50.4	59.8	90	37		42	42	42	42		62	45	48	55
June	29.41	29.64	29.04		64.9	72.0	69.6		57.7	60.5	59.6	76.5	58.7	67.6	87	49		53	52	53	53		65	52	56	61
July	29.41	29.66	29.04		67.0	80.8	76.0		62.6	66.8	65.4	81.5	63.0	72.2	93	52		60	58	59	59		79	49	57	68
August	29.42	29.69	29.16		65.8	82.3	74.3		62.8	68.2	66.1	82.1	64.8	73.4	95	58		61	60	62	62		85	49	66	76
September	29.47	29.96	29.10		57.6	71.2	64.4		54.4	59.9	58.0	73.4	55.9	64.6	97	44		52	52	54	53		83	55	70	76
October	29.45	29.90	28.92		45.4	58.0	50.0		43.1	50.3	47.0	60.3	43.8	52.0	81	30		41	44	44	42		84	61	80	82
November	29.63	30.08	29.12		32.0	41.4	35.9		30.5	36.9	33.8	43.4	32.4	37.9	72	22		28	31	31	29		86	66	81	83
December	29.29	29.86	28.75		28.6	34.2	31.0		27.4	31.7	29.5	37.1	26.4	31.8	56	7		26	28	27	26		87	78	85	86
Year	29.44	30.05	28.75		44.4	53.2	49.3		41.3	45.6	44.0	56.5	41.1	48.8	97	0		38	39	39	38		79	61	70	74

ROSEBURG, OREG.

[ϕ=43°13′ N.; λ=123°20′ W.]

January	29.58	29.99	28.97	40.5	39.5	41.2	47.6	38.9	38.1	39.4	42.9	49.2	35.9	42.6	64	28	37	36	37	38	37	88	89	87	69	83
February	29.64	30.20	29.06	39.8	37.2	40.9	47.0	38.0	36.0	38.7	41.8	48.8	34.6	41.7	59	25	36	34	36	36	36	86	89	83	66	81
March	29.54	29.92	29.16	46.6	40.7	47.6	59.5	43.5	39.2	43.9	49.2	60.8	38.0	49.4	79	29	40	38	40	39	39	79	88	76	49	73
April	29.57	29.94	29.24	52.3	44.0	57.4	68.0	47.0	41.9	49.1	53.1	69.9	41.0	55.4	89	33	42	40	41	39	40	68	84	55	38	61
May	29.49	29.69	29.19	56.1	48.0	61.4	70.2	50.5	45.6	52.1	55.4	73.0	46.0	59.5	96	35	45	44	44	42	44	69	85	53	40	62
June	29.50	29.70	29.21	59.1	51.2	62.5	71.9	53.1	48.7	53.7	57.5	73.7	49.6	61.6	88	41	48	46	46	46	46	68	84	57	43	63
July	29.47	29.71	29.21	67.6	57.1	71.7	83.0	57.9	53.0	59.4	62.9	84.4	54.8	69.6	104	46	51	50	51	49	50	58	78	50	34	55
August	29.43	29.65	29.18	68.4	57.3	71.8	85.9	58.2	52.8	59.2	63.4	87.4	54.3	70.8	104	43	51	49	50	48	50	55	75	48	28	52
September	29.45	29.73	29.17	61.1	53.2	65.8	79.0	55.3	50.9	56.8	60.7	80.4	50.8	65.6	98	40	51	49	50	47	49	70	86	58	34	62
October	29.57	29.92	29.10	52.1	48.8	54.1	63.5	49.9	48.0	51.3	55.7	65.1	46.4	55.8	79	37	48	47	49	50	48	87	95	83	62	82
November	29.62	29.86	29.22	44.0	42.2	45.5	54.6	43.1	41.7	43.8	49.4	55.8	39.5	47.6	71	32	42	41	42	45	42	94	96	89	71	88
December	29.50	29.85	28.90	45.8	44.4	46.4	50.8	44.1	42.9	44.3	47.1	54.4	40.6	47.5	64	29	42	42	42	43	42	88	90	87	76	85
Year	29.53	30.20	28.90	52.8	47.0	55.5	65.1	48.3	44.9	49.3	53.3	66.9	44.3	55.6	104	25	44	43	44	44	44	76	87	69	51	71

ROSWELL, N. MEX.

[ϕ=33°24′ N.; λ=104°27′ W.]

January	26.35	26.90	25.84	39.6	33.3	46.9	51.3	33.8	29.7	37.1	39.6	56.2	29.2	42.7	68	21	25	24	23	23	24	57	68	43	36	51
February	26.30	26.77	25.80	34.7	28.4	42.9	50.8	29.0	24.4	33.4	37.0	55.1	23.3	39.2	68	3	20	16	19	15	18	54	62	39	28	46
March	26.36	26.73	25.99	50.3	40.6	58.8	65.1	40.6	34.5	45.0	47.4	68.2	37.8	53.0	82	19	27	24	28	25	26	44	54	35	28	40
April	26.33	26.76	25.96	57.3	49.2	67.6	73.1	45.9	41.9	50.3	51.2	76.0	45.9	61.0	88	24	34	34	33	29	32	45	58	32	22	39
May	26.27	26.68	25.96	65.8	56.4	76.8	81.8	53.2	49.0	57.7	58.0	84.3	55.1	69.7	97	46	41	41	43	38	41	45	60	34	26	42
June	26.28	26.63	26.02	74.4	65.6	85.7	92.1	58.4	55.7	63.7	62.6	94.2	64.0	79.1	107	56	46	48	49	41	46	40	56	31	19	37
July	26.38	26.65	26.13	74.3	67.5	84.8	87.3	63.7	61.6	66.8	66.4	91.4	66.4	78.9	99	62	58	58	57	55	57	59	73	41	37	53
August	26.39	26.61	26.12	71.1	64.7	83.1	86.1	62.1	59.9	65.7	65.4	89.3	63.5	76.4	95	56	56	57	56	53	56	63	78	42	35	54
September	26.41	26.73	26.14	69.6	61.6	80.4	84.5	57.0	54.4	61.7	61.7	87.0	59.5	73.2	99	50	47	49	49	46	48	49	66	36	29	45
October	26.42	26.79	26.11	56.1	47.1	70.1	71.8	46.3	41.9	52.4	52.9	76.7	44.1	60.4	91	31	36	36	36	35	36	52	68	30	28	44
November	26.56	26.88	26.17	42.3	35.6	51.2	54.7	36.8	31.9	41.4	43.5	59.5	32.9	46.2	81	23	30	26	29	31	29	63	69	48	45	56
December	26.42	26.82	25.98	40.0	33.8	50.3	54.2	34.2	29.6	39.8	42.0	60.6	29.6	45.1	81	17	26	23	27	28	23	62	65	47	41	54
Year	26.37	26.90	25.80	56.3	48.6	66.6	71.1	46.8	42.9	51.2	52.3	74.9	45.9	60.4	107	3	37	36	37	35	36	53	65	38	31	47

SACRAMENTO, CALIF.

Airport [ϕ=38°31′ N.; λ=121°30′ W.] City [ϕ=38°35′ N.; λ=121°30′ W.]

	(1 4)	(1 4)	(1 4)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	30.05	30.44	29.65		41.1		53.4		39.8		47.3	55.2	37.8	46.5	64	31		38		41	40		90		64	77
February	30.08	30.45	29.61		40.6		57.0		37.4		45.9	57.7	38.1	47.9	73	30		33		32	32		75		44	60
March	30.00	30.36	29.74		46.0		62.9		43.8		52.6	64.2	43.9	54.0	81	33		41		42	42		84		51	68
April	29.93	30.19	29.73		51.8		77.1		47.7		58.2	78.8	49.8	64.3	91	44		43		42	42		75		31	53
May	29.87	30.14	29.59		53.5		79.3		49.8		59.7	81.0	52.4	66.7	100	42		46		44	45		78		32	55
June	29.79	30.00	29.63		57.6		86.7		51.6		62.3	88.7	56.4	72.6	103	46		46		44	45		68		24	46
July	29.82	20.00	29.59	66.9	59.1	77.7	90.6	56.9	53.6	61.9	65.0	92.6	59.1	75.8	106	53	49	49	51	47	49	55	71	41	24	48
August	29.80	30.00	29.62	65.8	57.9	75.8	90.1	57.1	53.6	61.7	65.1	92.3	57.7	75.0	105	51	51	50	52	48	50	59	76	45	25	51
September	29.82	30.11	29.52	67.1	60.1	74.8	86.0	56.5	53.4	60.2	63.2	87.3	58.9	73.1	102	46	48	48	50	46	48	53	66	44	29	48
October	29.94	29.28	29.59	57.8	51.2	66.3	76.3	51.8	48.3	55.7	58.5	78.2	50.8	64.5	89	39	46	46	47	44	46	67	82	51	34	58
November	30.02	30.22	29.78	48.7	42.3	56.9	68.4	43.6	39.8	48.6	53.4	69.6	42.4	56.0	81	35	38	37	40	39	38	67	81	55	36	58
December	30.05	30.26	29.60	46.1	43.0	49.4	57.0	43.9	41.4	45.9	50.4	58.2	41.4	49.8	68	33	41	40	42	44	42	84	88	78	64	78
Year	29.93	30.45	29.52		50.4		73.7		46.7		56.8	75.3	49.1	62.2	106	30		43		43	43		78		38	58

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 523 feet.
[3] Noon local time, January to June, inclusive.
[4] Pressure at airport adjusted to the old (city) station elevation of 66 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ROCHESTER, N. Y.

Airport [H=543 ft.; H_b=555 ft.; H_t=5 ft.; H_r=3 ft.; H_a=69 ft.] City [H=498 ft.; H_b=523 ft.; H_t=86 ft.; H_r=77 ft.; H_a=102 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.39	0.94	34.4	8.6	10.4	W.	34	W.	1	1	7	23	19	15	21	17	0	2	0	0	1	16	0	0	27	1	0
February	2.67	.54	11.7	7.8	10.8	W.	34	SW.	2	3	10	15	14	12	12	9	0	4	2	1	2	10	0	0	28	0	2
March	2.56	.80	13.6	7.2	9.8	W.	40	SW.	2	4	8	19	18	8	12	11	0	1	0	0	0	13	0	0	24	0	0
April	2.59	.87	3.9	8.2	9.7	W.	29	W.	0	3	5	22	18	13	8	6	0	2	0	0	0	1	0	0	11	0	0
May	.64	.25	.0	4.6	8.4	SW.	34	SW	1	11	12	8	8	5	0	0	0	2	0	0	0	0	1	0	0	0	2
June	3.28	1.06	.0	5.5	8.6	SW.	31	SW.	0	10	12	8	10	8	0	0	0	0	0	0	0	0	0	0	0	0	5
July	1.91	1.17	.0	4.8	7.5	SW.	18	W.	0	10	12	9	8	6	0	0	0	0	0	0	0	0	3	0	0	0	6
August	1.65	.88	.0	4.4	7.0	SW.	29	SW.	0	13	15	3	7	6	0	0	0	0	0	0	0	0	2	0	0	0	3
September	2.54	1.20	.0	6.1	7.9	SW.	29	W.	0	8	9	13	13	10	0	0	0	2	0	0	0	0	2	2	0	0	5
October	1.53	.52	T	6.6	8.6	SW.	30	SW.	0	6	8	17	14	9	4	1	0	5	1	0	0	0	0	0	2	0	3
November	.46	.29	.1	7.1	9.1	W.	34	W.	1	5	7	18	6	2	7	1	0	0	0	0	0	0	0	0	15	0	0
December	1.97	.59	2.6	8.7	9.7	W.	34	SW.	1	2	2	27	15	11	20	10	0	1	0	0	0	12	0	0	22	0	0
Year	25.19	1.20	66.3	6.6	8.9	SW.	40	SW.	8	76	107	182	150	105	84	55	0	19	3	1	3	52	8	2	129	1	26

ROSEBURG, OREG.

[H=479 ft.; H_b=510 ft.; H_t=45 ft.; H_r=41 ft.; H_a=76 ft.]

January	3.26	0.88	T	8.9	3.8	SW.	25	SW.	0	1	3	27	16	10	2	0	0	26	7	14	10	0	0	0	4	0	0
February	4.34	1.21	3.3	8.3	4.6	S.	28	SW.	0	2	4	22	19	17	4	3	0	12	4	4	3	0	0	0	8	0	0
March	3.20	1.35	T	6.0	4.3	NW.	21	SW.	0	11	5	15	11	9	1	0	0	7	4	6	6	0	0	0	4	0	0
April	.15	.09	.0	6.5	4.3	N.	18	SW.	0	6	9	15	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0
May	1.54	.83	.0	5.9	4.9	N.	20	SW.	0	10	5	16	7	5	0	0	0	0	0	0	0	0	2	1	0	0	0
June	1.52	.75	.0	5.8	5.3	N.	18	N.	0	9	7	14	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0
July	.59	.39	.0	3.0	5.1	N.	18	N.	0	20	5	6	4	4	0	0	0	0	0	0	0	0	10	7	0	0	0
August	.74	.44	.0	2.0	4.5	N	17	NW.	0	26	2	3	3	3	0	0	0	0	0	0	0	0	10	8	0	0	1
September	.55	.32	.0	3.0	3.5	N.	18	N.	0	18	8	4	4	4	0	0	0	3	0	3	0	0	4	2	0	0	0
October	2.77	.81	.0	6.8	3.3	NW.	16	N.	0	3	14	14	10	9	0	0	0	22	4	9	13	0	0	0	0	0	0
November	.34	.12	.0	7.6	3.0	NW.	13	SW.	0	0	14	16	5	3	0	0	0	27	10	24	22	0	0	0	1	0	0
December	7.34	3.08	.0	9.0	3.5	S.	22	SE.	0	1	5	25	19	16	0	0	0	20	7	10	9	0	0	0	3	0	0
Year	26.34	3.08	3.3	6.1	4.2	N.	28	SW.	0	107	81	177	112	88	7	3	0	117	36	70	63	0	26	18	20	0	1

ROSWELL, N. MEX.

[H=3,563 ft.; H_b=3,566 ft.; H_t=75 ft.: H_r=69 ft.; H_a=85 ft.]

January	0.77	0.41	0.6	3.4	8.7	NW.	40	NW.	5	18	10	3	7	4	5	3	0	0	0	0	0	0	0	0	25	0	1
February	.10	.10	1.2	2.4	8.9	NW.	36	NE.	4	20	6	2	1	1	3	1	0	0	0	0	0	0	0	0	26	0	0
March	1.15	83	.0	2.7	9.2	S.	40	NW.	3	22	6	3	3	2	0	0	0	0	0	0	0	0	0	0	10	0	3
April	.57	.43	.2	3.0	9.7	S.	39	NE.	4	18	10	2	2	2	1	1	0	0	0	0	0	0	0	0	2	0	1
May	.88	.74	.0	3.1	8.4	S.	35	NE.	1	19	9	3	4	3	0	0	0	0	0	0	0	8	3	0	0	0	7
June	.66	.31	.0	1.7	9.2	S.	31	NW.	0	25	5	0	4	4	0	0	0	0	0	0	0	25	13	0	0	0	9
July	5.32	1.30	.0	4.2	7.7	S.	35	NE.	2	12	14	5	10	7	0	0	0	0	0	0	0	22	8	0	0	0	13
August	1.38	81	.0	3.0	7.2	S.	36	SE.	2	18	13	0	8	5	0	0	1	0	0	0	0	17	1	0	0	0	10
September	.65	.65	.0	1.8	7.4	S.	22	SE.	0	23	4	3	2	2	0	0	0	1	0	0	0	8	4	0	0	0	2
October	25	25	.0	2.0	7.1	S.	26	NW.	0	23	6	2	2	1	0	0	0	0	0	0	0	1	0	2	0	0	0
November	.38	.20	T	4.0	6.2	S.	30	W.	0	17	4	9	2	2	1	0	0	2	2	2	2	0	0	0	13	0	0
December	.70	.51	2.0	2.6	6.2	S.	29	NE.	0	21	8	2	4	2	4	2	1	0	0	0	0	2	0	0	19	0	1
Year	12.81	1.30	4.0	2.8	8.0	S.	40	NW.	21	236	95	34	49	35	14	7	2	3	2	2	2	2	81	29	97	0	47

SACRAMENTO, CALIF.

Airport [H=17 ft.; H_b=25 ft.; H_t=5 ft.; H_r=3 ft.; H_a=40 ft.] City [H=25 ft.; H_b=66 ft.; H_t=92 ft.; H_r=84 ft.; H_a=115 ft.]

January	1.91	1.16	0.0	6.4	6.7	SE.	26	NW.	0	6	12	13	10	7	0	0	0	18	12	10	10	0	0	0	2	0	0
February	1.06	.32	.0	5.0	9.2	N.	29	N.	0	11	9	8	8	5	0	0	0	1	1	1	0	0	0	0	3	0	0
March	2.42	1.38	.0	5.4	7.2	S.	22	NW.	0	10	10	11	5	5	0	0	0	3	1	1	1	0	0	0	0	0	0
April	.25	.24	.0	2.3	7.5	S.	21	NW.	0	20	10	0	3	1	0	0	0	0	0	0	0	0	2	0	0	0	0
May	.92	.58	.0	3.0	8.2	S.	27	SW.	0	19	10	2	4	4	0	0	0	0	0	0	0	0	7	3	0	0	2
June	T	T	.0	1.5	8.0	S.	23	SW.	0	23	7	0	0	0	0	0	0	0	0	0	0	0	17	6	0	0	0
July	T	T	.0	1.0	8.3	S.	19	SW.	0	27	3	1	0	0	0	0	0	0	0	0	0	0	21	11	0	0	1
August	.0	.0	.0	.9	7.9	S.	18	SW.	0	27	4	0	0	0	0	0	0	0	0	0	0	0	17	11	0	0	0
September	.35	.24	.0	2.8	6.7	S.	21	S.	0	19	7	4	3	2	0	0	0	0	0	0	0	0	14	8	0	0	2
October	.45	.20	.0	1.9	5.6	S.	24	NW.	0	24	3	4	4	3	0	0	0	0	0	0	0	0	0	0	0	0	2
November	.07	.07	.0	1.7	4.8	N.	18	SW.	0	24	5	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0
December	1.15	.45	.0	7.1	6.4	N.	32	SE.	1	5	8	18	7	4	0	0	0	11	9	8	8	0	0	0	0	0	0
Year	8.58	1.38	0	3.2	7.2	S.	32	SE.	1	215	88	62	45	32	0	0	0	34	24	21	20	0	78	39	5	0	7

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ST. JOSEPH, MO.

Airport [ϕ=39°49′ N.; λ=94°55′ W.] City [ϕ=39°49′ N.; λ=94°51′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	▫ (1)	° (1)	° (1)	°	▫	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	28.92	29.43	28.38	----	32.1	40.7	40.0	----	29.5	35.1	34.7	45.6	28.0	36.8	71	8	----	25	27	27	26	----	76	61	63	70
February	28.99	29.55	28.33	----	21.3	32.3	32.0	----	19.2	26.6	27.1	38.2	15.8	27.0	60	−4	----	14	15	18	16	----	73	50	56	64
March	29.00	29.43	28.34	----	36.5	49.2	49.2	----	33.4	41.3	41.8	54.2	33.3	43.8	84	8	----	29	32	33	31	----	75	54	59	67
April	28.92	29.45	28.53	----	45.8	57.5	59.5	----	42.3	47.7	48.3	62.9	43.8	53.4	85	25	----	38	38	37	38	----	76	51	46	61
May	28.88	29.28	28.56	----	60.3	76.1	77.2	----	55.5	61.2	61.1	81.0	59.0	70.0	97	41	----	52	50	49	50	----	74	43	40	57
June	28.86	29.23	28.43	----	67.6	80.4	81.8	----	64.8	66.5	68.7	85.0	65.2	75.1	97	57	----	63	62	62	63	----	87	56	52	70
July	28.91	29.18	28.66	75.0	71.3	88.1	88.8	70.5	68.6	74.7	75.5	94.1	71.3	82.7	104	63	69	67	69	70	69	81	88	55	56	72
August	28.92	29.13	28.61	68.3	65.7	83.0	81.0	65.2	63.6	71.0	69.4	87.0	65.4	76.2	97	55	64	62	65	64	63	86	90	56	57	74
September	28.96	29.29	28.51	67.2	60.8	83.0	80.6	59.0	55.5	64.3	63.6	88.2	63.0	75.6	106	36	54	52	53	53	53	63	75	37	40	58
October	28.96	29.54	28.55	51.8	47.3	68.3	63.8	46.8	44.1	55.1	52.8	72.5	47.6	60.0	96	29	42	41	44	43	42	72	80	44	49	69
November	29.23	29.70	28.71	36.0	34.1	50.3	44.6	34.0	32.6	43.4	40.6	53.4	35.5	44.4	74	21	31	30	35	35	33	84	87	59	71	79
December	28.97	29.34	28.67	32.5	29.1	43.2	38.5	30.1	27.4	36.7	33.9	47.0	29.1	38.0	72	6	27	25	29	28	26	79	84	60	67	75
Year	28.96	29.70	28.33	55.1	47.7	62.7	61.4	50.9	44.7	52.0	51.5	67.4	46.4	56.9	106	−4	48	42	43	43	42	78	80	52	55	68

ST. LOUIS, MO.

Airport [ϕ=38°45′ N.; λ=90°23′ W.] City [ϕ=38°38′ N.; λ=90°12′ W.]

	(1 3)	(1 3)	(1 3)																						
January	29.39	29.80	28.70	----	35.9	42.1	42.9	----	33.1	37.2	37.8	46.8	34.0	40.4	70	19	----	29	31	31	30	----	76	66	65	69
February	29.45	29.95	28.71	----	29.0	34.4	37.0	----	26.5	30.2	32.8	43.6	25.1	34.4	64	12	----	22	23	26	24	----	72	63	64	66
March	29.44	29.88	28.75	----	40.1	50.9	53.6	----	36.7	42.5	44.7	58.0	38.3	48.2	83	20	----	32	32	35	33	----	74	52	52	59
April	29.36	29.94	28.79	----	47.3	57.1	57.3	----	43.0	48.1	48.4	61.9	44.3	53.1	84	26	----	38	39	39	35	----	70	53	54	59
May	29.34	29.68	28.80	----	61.4	74.3	74.0	----	56.1	61.3	62.2	78.5	59.8	69.2	91	43	----	52	52	54	53	----	72	48	52	57
June	29.34	29.68	28.88	----	70.4	83.9	79.5	----	66.0	69.2	69.3	84.2	68.1	76.2	94	58	----	64	64	64	64	----	79	58	61	66
July	29.36	29.64	29.17	----	74.4	86.1	85.9	----	68.3	70.9	72.3	89.7	71.4	80.6	100	66	----	65	64	66	65	----	74	52	53	60
August	29.36	29.60	29.16	----	70.0	81.5	80.2	----	65.2	68.5	69.0	85.0	67.8	76.4	93	60	----	63	62	63	63	----	78	53	58	63
September	29.40	29.70	29.12	----	68.4	83.2	81.9	----	60.9	66.0	65.5	87.5	66.3	76.9	100	48	----	56	56	55	56	----	66	41	42	50
October	29.43	29.93	29.11	----	54.3	67.9	66.8	----	49.1	55.0	54.5	73.4	51.9	62.6	93	33	----	44	44	44	44	----	70	44	46	53
November	29.67	30.08	29.22	----	40.9	48.4	48.7	----	37.1	41.0	41.3	52.5	38.3	45.4	71	30	----	32	32	32	32	----	70	55	54	60
December	29.40	29.75	29.08	----	34.4	43.1	41.9	----	31.1	36.6	36.2	47.4	31.5	39.4	72	4	----	26	28	29	28	----	72	56	61	63
Year	29.41	30.08	28.70	----	52.2	62.7	62.5	----	47.8	52.2	52.8	67.4	49.7	58.6	100	4	----	44	44	45	44	----	73	53	55	60

SALT LAKE CITY, UTAH

Airport [ϕ=40°46′ N.; λ=111°57′ W.] City [ϕ=40°46′ N.; λ=111°54′ W.]

	(4 5)	(4 5)	(4 5)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)						(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)	(4)
January	25.64	26.14	25.10	29.8	27.5	33.3	33.2	27.9	26.0	29.7	30.2	38.9	26.3	32.6	51	18	25	24	25	26	25	82	85	70	74	80
February	25.59	26.01	24.85	20.7	20.7	26.4	28.3	19.6	19.2	23.7	25.6	33.5	19.3	26.4	43	7	17	16	19	21	18	85	80	71	73	76
March	25.62	25.94	25.22	37.3	35.7	45.7	48.9	33.8	32.5	38.2	39.9	53.8	34.7	44.2	68	19	30	28	30	31	30	71	74	55	53	64
April	25.60	26.07	25.21	48.8	43.7	59.1	62.2	41.1	38.3	45.2	46.3	65.4	43.4	54.4	82	29	32	32	31	30	31	55	64	37	33	48
May	25.53	25.77	25.26	56.1	50.3	68.7	71.4	46.5	43.4	50.6	50.9	74.8	50.5	62.6	90	40	37	36	34	32	34	53	62	31	27	44
June	25.54	25.82	25.19	61.0	54.1	72.9	76.3	49.4	46.3	52.8	53.5	79.8	54.0	66.9	96	37	40	40	36	34	37	50	62	30	25	43
July	25.61	25.83	25.36	70.7	64.0	84.5	89.3	55.4	52.5	59.3	60.9	91.4	65.2	78.3	103	56	44	43	41	41	42	40	50	25	21	36
August	25.62	25.78	25.42	68.0	61.4	83.6	89.1	54.3	51.5	59.9	59.5	91.1	62.6	76.8	98	54	44	44	44	38	41	44	53	27	18	36
September	25.64	25.96	25.30	59.5	54.6	70.9	74.7	51.4	48.6	55.2	55.9	78.4	54.2	66.3	93	40	45	44	44	41	43	61	69	40	34	51
October	25.66	26.05	25.13	46.6	43.1	58.7	60.3	40.8	39.0	46.6	47.3	65.2	42.4	53.8	77	33	35	35	35	35	35	66	74	44	42	58
November	25.77	25.96	25.46	36.6	34.0	50.4	47.0	32.5	30.4	40.1	39.7	56.8	35.1	46.0	69	29	27	25	28	32	28	68	70	44	56	63
December	25.72	26.07	25.36	32.9	30.3	41.4	40.0	29.1	27.3	35.0	34.9	48.5	29.5	39.0	68	9	24	23	27	29	26	72	76	59	66	73
Year	25.63	26.14	24.85	47.3	43.3	58.0	60.1	48.2	40.2	44.7	45.4	64.8	43.1	53.9	103	7	33	32	33	32	32	62	68	44	44	56

SAN ANTONIO, TEX.

Airport [ϕ=29°27′ N.; λ=98°28′ W.] City [ϕ=29°27′ N.; λ=98°28′ W.]

	(1 6)	(1 6)	(1 6)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.33	29.86	28.88	----	49.1	59.1	59.9	----	46.2	51.0	51.7	63.6	45.7	54.6	75	35	----	43	43	43	43	----	80	59	59	66
February	29.27	29.88	28.74	----	46.4	59.0	60.9	----	43.0	49.2	49.8	65.6	42.6	54.1	83	30	----	38	38	37	38	----	76	51	47	58
March	29.30	29.68	28.90	----	56.0	69.8	74.4	----	51.3	57.3	57.7	76.2	54.6	65.4	93	42	----	46	47	43	45	----	73	48	37	53
April	29.22	29.65	28.89	----	60.7	76.7	80.5	----	55.4	61.2	60.5	83.0	58.7	70.8	98	37	----	51	50	44	48	----	72	42	32	49
May	29.16	29.39	28.83	----	69.8	84.6	85.9	----	66.5	69.5	68.6	89.7	68.7	79.2	100	61	----	65	62	59	62	----	84	48	45	59
June	29.17	29.38	28.96	----	74.0	87.5	88.8	----	71.1	72.6	72.6	92.7	73.5	83.1	98	68	----	70	66	65	67	----	87	50	47	61
July	29.22	29.42	29.03	79.7	76.1	91.2	93.7	73.1	73.3	74.1	74.3	95.7	74.6	85.2	105	70	70	72	66	65	68	75	88	46	42	63
August	29.22	29.39	29.04	78.2	73.9	88.3	89.6	73.0	72.2	74.9	73.7	93.6	73.2	83.4	99	67	71	72	69	67	70	79	93	55	49	69
September	29.25	29.43	29.04	75.4	70.3	87.5	87.4	70.2	68.0	72.2	71.5	92.0	70.4	81.2	102	59	68	67	65	64	66	78	89	49	48	66
October	29.32	29.64	29.06	68.4	64.8	79.5	79.3	62.0	60.7	66.0	65.6	83.2	63.7	73.4	93	44	57	58	58	57	58	69	79	49	48	61
November	29.49	29.87	29.22	54.5	50.9	65.0	63.4	50.1	47.5	55.0	54.2	67.9	49.0	58.4	82	39	46	44	47	46	46	73	78	54	56	65
December	29.34	29.74	28.98	51.5	47.1	63.9	63.4	47.6	44.4	53.0	52.3	70.4	47.2	58.8	85	32	44	41	43	43	43	76	82	50	50	64
Year	29.28	29.88	28.74	----	61.6	76.0	77.3	----	58.3	63.0	62.7	81.1	60.2	70.6	105	30	----	56	54	53	54	----	82	50	47	61

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 967 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 568 feet.
[4] Airport data.
[5] Pressure at airport adjusted to the old (city) station elevation of 4,357 feet.
[6] Pressure at airport adjusted to the old (city) station elevation of 693 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

ST. JOSEPH, MO.

Airport [H=809 ft.; H_b=817 ft.; H_t=4 ft.; H_r=4 ft.; H_a=51 ft.] City [H=957 ft.; H_b=967 ft.; H_t=11 ft.; H_r=3 ft.; H_a=49 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	0.93	0.35	5.0	5.7	9.4	NW.	30	NW.	0	10	9	12	9	6	7	5	0	3	0	0	1	5	0	0	17	0	0
February	1.26	.94	9.9	4.9	10.6	NW.	30	NW.	0	12	6	10	6	4	6	4	0	0	0	0	0	10	0	0	28	3	1
March	4.69	2.82	T	4.7	9.4	S.	31	NW.	0	14	8	9	9	9	4	1	1	3	0	0	0	1	0	0	12	0	5
April	2.71	1.16	T	5.6	9.9	NW.	27	NW.	0	9	9	12	12	8	3	3	0	1	0	0	0	0	0	0	4	0	3
May	1.38	.53	.0	3.8	7.4	S.	24	SW.	0	14	11	6	10	5	0	0	0	0	0	0	0	0	4	2	0	0	8
June	7.52	2.37	.0	5.1	8.1	S.	30	NW.	0	8	18	4	16	15	0	0	2	0	0	0	0	0	5	2	0	0	14
July	.96	.86	.0	3.6	7.5	SE.	21	NW.	0	18	10	3	3	2	0	0	0	0	0	0	0	0	21	15	0	0	4
August	2.40	.83	.0	4.7	7.7	E.	27	NW.	0	12	15	4	10	8	0	0	0	0	0	0	0	0	11	2	0	0	12
September	.42	.42	.0	2.7	8.7	S.	27	SW.	0	20	7	3	1	1	0	0	0	0	0	0	0	0	15	9	0	0	2
October	.95	.49	.0	2.5	9.1	S.	26	S.	0	23	4	4	4	3	0	0	0	2	0	0	0	0	2	1	3	0	3
November	2.73	1.72	T	4.5	6.9	S.	26	SW.	0	14	6	10	5	4	2	0	0	12	0	0	3	0	0	0	9	0	0
December	.72	.49	3.5	5.0	8.4	NW.	31	NW.	0	13	7	11	6	2	8	5	0	0	0	0	0	6	0	0	15	0	0
Year	26.67	2.82	18.4	4.4	8.6	S.	31	NW.	0	167	110	88	91	67	30	18	3	21	0	0	4	22	58	31	88	3	52

ST. LOUIS, MO.

Airport [H=556 ft.; H_b=564 ft.; H_t=6 ft.; H_r=3 ft.; H_a=59 ft.] City [H=465 ft.; H_b=568 ft.; H_t=179 ft.; H_r=172 ft.; H_a=302 ft.]

January	4.08	1.54	10.6	6.5	13.0	SW.	33	SW.	2	8	7	16	10	10	8	4	0	5	3	1	2	2	0	0	14	0	2
February	3.22	1.01	8.3	6.2	13.4	NW.	34	NW.	4	6	12	10	13	9	8	5	0	4	1	1	1	6	0	0	23	0	2
March	3.35	1.78	.6	4.2	12.6	NW.	33	SW.	2	18	5	8	10	10	2	1	1	4	3	2	1	0	0	0	8	0	5
April	5.85	1.86	T	5.7	12.3	NW.	30	SW.	0	9	6	15	12	10	3	0	0	4	1	1	1	0	0	0	4	0	5
May	2.64	1.22	.0	4.0	10.8	S.	28	SW.	0	15	10	6	12	8	0	0	0	3	1	1	1	0	1	0	0	0	6
June	3.24	1.07	.0	5.6	11.1	S.	34	SW.	1	4	19	7	11	9	0	0	0	2	1	0	0	0	4	0	0	0	10
July	2.07	.82	.0	4.0	9.8	SW.	41	NW.	1	12	15	4	7	6	0	0	1	2	0	0	0	0	13	8	0	0	11
August	10.06	3.52	.0	3.3	9.3	NE.	32	SW.	1	19	7	5	10	10	0	0	1	1	1	0	0	0	4	0	0	0	10
September	1.01	.89	.0	1.8	10.6	SW.	30	S.	0	22	7	1	4	4	0	0	0	1	0	0	0	0	15	7	0	0	4
October	.77	.32	T	2.9	12.7	SW.	32	SW.	1	19	9	3	9	6	1	0	0	3	2	1	1	0	1	0	0	0	5
November	2.43	.95	.0	6.0	9.6	SW.	28	SW.	1	10	6	14	8	6	0	0	0	8	1	1	1	0	0	0	4	0	0
December	1.43	.79	10.5	5.7	11.9	NW.	26	NW.	0	10	9	12	7	4	7	5	0	3	3	1	1	5	0	0	16	0	0
Year	40.15	3.52	30.0	4.7	11.4	SW.	41	NW.	13	152	112	101	113	92	29	15	3	40	17	9	9	13	38	15	69	0	60

SALT LAKE CITY, UTAH

Airport [H=4,222 ft.; H_b=4,227 ft.; H_t=32 ft.; H_r=31 ft.; H_a=46 ft.] City [H=4,360 ft.; H_b=4,357 ft.; H_t=86 ft.; H_r=84 ft.; H_a=210 ft.]

January	1.28	0.56	16.0	7.2	5.7	S.	31	W.	0	3	12	16	13	7	18	11	0	4	0	0	1	4	0	0	29	0	0
February	1.96	.48	30.0	7.3	6.7	S.	33	NW.	1	3	6	19	16	15	21	16	0	0	0	0	0	6	0	0	28	0	1
March	1.06	.27	8.9	5.6	6.5	S.	29	E.	0	11	9	11	10	7	9	7	0	0	0	0	0	0	0	0	11	0	0
April	.92	.39	T	4.7	7.9	NW.	40	NW.	4	13	9	8	7	5	1	0	1	0	0	0	0	0	0	0	1	0	4
May	1.12	.48	.0	4.2	8.5	NW.	36	SE.	4	13	12	6	6	5	0	0	2	0	0	0	0	0	1	0	0	0	7
June	1.31	.70	T	3.7	8.4	S.	38	NE.	5	14	12	4	7	6	1	1	0	0	0	0	0	0	6	3	0	0	7
July	.11	.08	.0	3.2	7.4	N.	34	NE.	1	19	6	6	3	1	0	0	0	0	0	0	0	0	17	12	0	0	5
August	.26	.13	.0	3.4	6.7	N.	29	N.	0	18	10	3	3	2	0	0	0	0	0	0	0	0	21	6	0	0	4
September	.58	.29	.0	4.1	7.2	S.	27	S.	0	15	6	9	6	5	0	0	1	0	0	0	0	0	1	0	0	0	5
October	1.42	.79	T	3.6	6.8	SE.	34	SE.	1	16	11	4	8	6	1	0	1	0	0	0	0	0	0	0	0	0	2
November	T	T	.0	3.4	5.4	SE.	24	NW.	0	18	6	6	0	0	0	0	0	1	0	0	0	0	0	0	13	0	0
December	.66	.23	5.6	5.9	5.6	NW.	25	NW.	0	8	10	13	7	4	6	4	0	4	0	0	0	4	0	0	19	0	0
Year	10.68	.79	60.5	4.7	6.9	S.	40	NW.	16	151	109	105	86	63	57	39	5	9	0	0	1	14	46	21	101	0	35

SAN ANTONIO, TEX.

Airport [H=658 ft.; H_b=582 ft.; H_t=28 ft.; H_r=27 ft.; H_a=59 ft.] City [H=659 ft.; H_b=693 ft.; H_t=111 ft.; H_r=103 ft.; H_a=301 ft.]

January	2.08	0.82	0.0	5.8	12.0	E.	37	W.	2	11	5	15	11	8	0	0	0	5	2	1	0	0	0	0	0	0	3
February	.95	.39	.0	5.0	12.7	E.	35	W.	5	12	7	9	8	5	0	0	1	7	3	1	1	0	0	0	4	0	1
March	.65	.35	.0	5.7	12.0	E.	34	SE.	2	7	15	9	3	2	0	0	1	7	2	2	2	0	2	0	0	0	2
April	.78	.67	.0	4.3	12.2	SE.	33	W.	2	10	13	7	4	3	0	0	0	3	1	1	0	0	4	2	0	0	2
May	3.22	2.84	.0	5.5	11.5	SE.	42	NE.	2	8	14	9	6	4	0	0	0	1	0	0	0	0	17	7	0	0	10
June	.10	.03	.0	5.9	12.5	SE.	35	E.	1	4	22	4	5	0	0	0	0	2	2	1	1	0	25	8	0	0	4
July	2.12	1.89	.0	4.0	12.8	SE.	31	SE.	0	14	13	4	3	2	0	0	0	0	0	0	0	0	28	23	0	0	4
August	5.08	2.33	.0	5.3	9.3	SE.	38	E.	2	8	14	9	9	6	0	0	0	0	0	0	0	0	27	14	0	0	11
September	1.90	.56	.0	3.7	10.9	E.	32	E.	1	14	10	6	9	7	0	0	0	4	0	0	0	0	24	7	0	0	3
October	.07	.03	.0	5.2	11.7	SE.	32	N.	1	12	10	9	3	0	0	0	0	3	1	1	0	0	6	0	0	0	0
November	.99	.62	.0	6.4	10.9	N.	30	SE.	0	8	3	19	5	4	0	0	0	6	1	1	0	0	0	0	0	0	0
December	.89	.85	.0	4.5	10.3	S.	37	NW.	2	13	9	9	4	2	0	0	0	12	4	3	3	0	0	0	0	0	0
Year	18.83	2.84	.0	5.1	11.6	SE.	42	NE.	21	121	135	109	70	43	0	0	2	50	16	11	7	0	133	61	4	0	40

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SAN DIEGO, CALIF.

Airport [ϕ=32° 44 N.; λ=117° 10′ W.] City [ϕ=32°43′ N.; λ=117°10′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	°	°	°	(1)	(1)	(1)	(1)	(1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.96	30.17	29.66		50.9		59.7		46.6		52.4	63.5	47.6	55.6	73	43		42		46	44		74		63	68
February	30.00	30.26	29.71		47.8		57.0		42.7		48.6	60.1	44.6	52.4	69	36		36		39	37		66		55	60
March	29.98	30.13	29.81		51.0		57.9		48.4		52.6	61.3	49.0	55.2	74	42		46		48	47		83		70	77
April	29.90	30.05	29.75		55.8		63.7		53.4		56.5	67.5	54.4	61.0	89	48		51		51	51		86		67	76
May	29.87	30.00	29.72		58.1		64.7		54.9		57.7	67.5	57.0	62.2	80	54		52		53	53		81		66	74
June	29.82	29.92	29.73		60.7		67.5		57.7		60.9	70.0	59.6	64.8	76	54		56		57	56		84		68	76
July	29.84	29.93	29.75	65.8	64.8	71.4	72.5	62.8	61.8	66.6	65.0	72.8	63.4	68.1	77	58	61	60	61	61	61	69	85	84	67	76
August	29.81	29.94	29.69	67.3	66.3	73.9	73.5	64.4	63.9	66.5	66.2	75.1	65.1	70.1	81	61	63	62	62	62	62	85	88	68	68	77
September	29.78	29.94	29.54	69.6	67.0	77.6	76.7	64.4	63.4	67.1	66.5	79.9	65.8	72.8	106	57	61	61	61	61	61	78	83	62	62	72
October	29.86	30.09	29.70	63.6	59.3	73.7	73.4	57.9	54.0	60.8	61.8	76.6	58.9	67.8	96	52	53	49	51	54	52	72	72	50	55	62
November	29.92	30.10	29.78	59.7	56.4	66.9	67.7	55.7	52.2	57.5	59.7	71.9	55.7	63.8	86	51	52	48	50	54	51	79	76	58	64	69
December	29.95	30.15	29.67	56.4	52.7	63.7	65.0	53.9	49.4	55.5	58.8	69.6	52.3	61.0	80	45	52	46	49	54	50	85	80	60	70	74
Year	29.89	30.26	29.54		57.6		66.6		54.0		58.8	69.6	56.1	62.9	106	36		51		53	52		80		65	72

SANDUSKY, OHIO

[ϕ=41°25′ N.; λ=82°40′ W.]

January	29.29	29.68	28.63		29.6	(3) 34.2			27.8	(3) 31.0		38.7	23.9	31.3	61	9		25	(3) 26				81	(3) 72		
February	29.34	29.92	28.79		28.1	35.5			26.5	31.5		40.0	21.9	31.0	64	6		24	25				83	66		
March	29.35	29.83	28.73		32.8	40.4			30.5	34.9		45.1	29.1	37.1	81	12		27	27				79	60		
April	29.25	29.82	28.76		40.7	49.1			37.9	42.5		53.2	37.8	45.5	82	24		34	35				78	61		
May	29.30	29.63	28.76		58.5	68.9			52.7	57.4		72.8	52.7	62.8	92	40		48	48				68	51		
June	29.27	29.56	28.90		68.9	76.6			63.7	66.9		81.5	63.3	72.4	91	54		61	62				76	62		
July	29.28	29.53	28.96		70.8	79.5			64.5	68.3		83.1	65.0	74.0	96	55		61	62				72	57		
August	29.28	29.56	29.02		69.6	80.2			65.2	68.0		82.9	65.0	74.0	91	58		63	62				80	54		
September	29.35	29.77	28.97		62.3	76.3			57.8	63.4		79.2	58.7	69.0	98	47		55	56				78	51		
October	29.36	29.79	28.92		49.7	63.4			46.4	52.5		65.5	46.0	55.8	92	29		43	43				78	49		
November	29.55	29.96	29.10		36.6	46.7			34.1	40.3		48.7	34.8	41.8	67	27		30	32				79	60		
December	29.23	29.70	28.78		32.9	38.4			30.7	34.4		40.5	29.1	34.8	60	9		27	29				79	68		
Year	29.32	29.96	28.63		48.4	57.4			44.8	49.3		60.9	43.9	52.5	98	6		42	42				78	59		

SANDY HOOK, N. J.

[ϕ=40°28′ N.; λ=74°01′ W.]

January	30.00	30.44	29.34		31.4		33.1		29.2		30.3	37.3	27.5	32.4	54	9		25		25	25		77		72	75
February	30.08	30.65	29.30		33.2		37.6		31.2		34.8	43.3	29.7	36.5	61	16		28		30	29		79		74	77
March	30.04	30.58	29.40		35.5		39.7		33.0		36.4	45.6	32.5	39.0	68	19		29		31	30		76		72	74
April	29.91	30.41	29.37		44.3		47.9		41.6		43.9	53.3	41.1	47.2	83	31		37		39	38		76		74	75
May	29.93	30.28	29.43		57.1		62.1		52.5		55.2	69.8	54.1	62.0	91	44		48		49	49		74		65	69
June	29.95	30.24	29.64		67.8		70.3		62.9		64.3	77.2	63.5	70.4	90	57		60		61	60		76		73	74
July	29.94	30.23	29.59	70.4	70.6	78.5	74.2	66.3	66.3	68.2	68.4	80.4	67.6	74.0	91	60	64	64	62	65	64	81	80	60	75	78
August	29.94	30.25	29.68	73.7	73.9	79.9	76.5	70.1	69.5	71.2	71.1	81.8	71.4	76.6	91	61	68	67	67	68	68	84	81	66	77	79
September	30.02	30.51	29.54	64.8	64.3	72.5	68.4	60.8	60.9	63.9	62.8	73.9	61.3	67.6	88	53	58	59	58	59	59	80	82	63	74	78
October	30.00	30.46	29.41	54.9	53.7	60.9	57.5	50.9	50.5	53.6	52.6	63.5	50.0	56.8	84	37	46	47	47	48	47	75	79	62	72	76
November	30.14	30.52	29.59	41.6	39.9	47.4	44.1	37.3	36.1	40.3	38.7	48.9	37.5	43.2	62	30	31	31	31	31	31	66	69	53	61	65
December	29.85	30.45	29.35	35.2	34.2	39.7	37.2	32.7	31.9	35.5	33.8	41.6	30.5	36.0	58	14	28	28	29	28	28	75	77	65	69	73
Year	29.98	30.65	29.30		50.5		54.0		47.1		49.4	59.7	47.2	53.5	91	9		44		44	44		77		72	74

SAN FRANCISCO, CALIF.

[ϕ=37°47′ N.; λ=122°25′ W.]

January	29.94	30.27	29.50		47.6	54.3	54.9		45.3	48.1	48.9	57.7	46.2	52.0	66	40		43	42	43	43		84	64	66	75
February	29.99	30.31	29.50		47.1	54.1	55.4		43.3	46.1	47.6	57.5	45.0	51.2	75	39		38	38	39	39		75	55	58	66
March	29.93	30.24	29.62		48.8	55.7	55.1		46.2	49.6	49.6	58.3	47.2	52.8	79	44		43	44	44	44		83	67	71	77
April	29.88	30.10	29.69		50.8	59.7	57.4		48.5	52.3	51.7	62.3	49.2	55.8	83	45		46	46	47	46		86	69	70	78
May	29.83	30.06	29.61		52.5	59.6	59.1		49.9	53.5	53.5	62.4	51.5	57.0	73	48		48	49	49	48		84	68	70	77
June	29.77	29.91	29.62		52.4	61.1	60.1		50.2	54.7	54.5	64.1	51.6	57.8	74	49		48	50	50	49		86	67	70	78
July	29.79	29.94	29.61		54.4	62.1	61.6		53.0	56.7	56.6	64.4	53.5	59.0	80	50		52	53	53	52		91	73	74	83
August	29.78	29.95	29.58		56.7	63.3	62.6		54.9	57.9	57.6	65.8	55.5	60.6	81	52		54	54	54	54		90	73	74	82
September	29.75	30.00	29.51		60.0	71.5	68.0		56.9	59.0	59.3	74.1	58.2	66.2	97	53		55	53	53	54		84	56	63	73
October	29.85	30.16	29.55		56.9	67.9	66.1		54.4	57.8	57.1	70.7	55.2	63.0	90	50		52	51	50	51		86	56	60	73
November	29.92	30.09	29.69		52.9	63.4	62.1		50.5	53.6	54.0	67.0	51.3	59.2	78	49		48	45	47	48		85	53	60	73
December	29.94	30.15	29.50		52.0	57.2	58.8		49.5	51.6	52.6	60.5	50.1	55.3	69	44		47	47	47	47		84	69	66	75
Year	29.86	30.31	29.50		52.7	60.8	60.1		50.2	53.4	53.6	63.7	51.2	57.5	97	39		48	48	48	48		85	64	67	76

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 87 feet.
[3] Noon local time January to June, inclusive.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SAN DIEGO, CALIF.

Airport [H=29 ft.; H_b=28 ft.; H_t=20 ft.; H_r=18 ft.; H_a=55 ft.] City [H=26 ft.; H_b=87 ft.; H_t=62 ft.; H_r=55 ft.; H_a=70 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.38	0.89	0.0	5.4	6.2	E.	30	W.	0	9	11	11	11	8	0	0	0	5	1	0	2	0	0	0	0	0	3
February	1.23	.94	.0	4.0	7.2	W.	29	W.	0	15	6	7	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0
March	1.17	.50	.0	6.5	6.8	NW.	24	SE.	0	8	8	15	8	5	0	0	0	5	4	3	4	0	0	0	0	0	0
April	.47	.25	.0	6.0	6.8	W.	21	W.	0	6	13	11	6	3	0	0	0	7	4	0	2	0	0	0	0	0	0
May	.01	.01	.0	5.2	7.2	W.	17	NW.	0	12	10	9	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0
June	.00	.00	.0	4.1	7.2	W.	16	W.	0	15	12	3	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
July	T	T	.0	3.5	6.9	W.	18	W.	0	17	12	2	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
August	T	T	.0	4.5	6.6	W.	16	S.	0	11	15	5	0	0	0	0	0	2	1	1	1	0	0	0	0	0	0
September	2.58	.76	.0	5.5	6.6	NW.	34	S.	2	11	9	10	9	8	0	0	0	1	1	1	1	0	5	4	0	0	2
October	.61	.61	.0	2.7	6.0	NW.	17	W.	0	22	4	5	2	2	0	0	0	5	2	3	5	0	3	1	0	0	0
November	1.04	.83	.0	4.5	5.1	NW.	18	N.	0	13	9	8	4	4	0	0	0	9	7	1	4	0	0	0	0	0	2
December	.48	.48	.0	3.3	5.0	NW.	24	S.	0	17	9	5	2	2	0	0	0	9	2	2	0	0	0	0	0	0	0
Year	9.97	.94	.0	4.6	6.5	NW.	34	S.	2	156	118	91	50	37	0	0	0	49	23	11	19	0	8	5	0	0	7

SANDUSKY, OHIO

[H=603 ft.; H_b=629 ft.; H_t=5 ft.; H_r=3 ft.; H_a=67 ft.]

January	2.11	0.74	13.4	8.5	10.9	SW.	33	W.	1	0	8	23	16	12	17	12	0	4	0	2	0	9	0	0	24	0	0
February	3.43	1.04	8.8	6.5	11.6	SW.	35	SW.	1	8	4	16	16	15	11	9	0	2	0	0	0	10	0	0	24	0	0
March	3.13	1.13	.5	7.3	11.0	W.	32	SW.	1	5	5	21	12	7	9	4	0	3	2	2	1	3	0	0	24	0	0
April	4.34	.85	.9	7.0	11.1	SW.	30	NW.	0	5	7	18	17	14	6	4	1	1	0	0	0	0	0	0	10	0	2
May	1.08	.69	.0	5.2	8.1	SW.	22	SW.	0	10	11	10	9	5	0	0	0	2	1	1	0	0	1	0	0	0	2
June	4.03	1.09	.0	6.5	8.2	SW.	24	SW.	0	4	14	12	15	13	0	0	1	1	0	0	0	0	2	0	0	0	12
July	5.06	1.97	.0	5.1	7.2	S.	24	NW.	0	10	11	10	8	7	0	0	1	0	0	0	0	0	6	1	0	0	5
August	2.28	1.18	.0	4.4	7.4	SW.	24	SW.	0	15	9	7	5	3	0	0	0	0	0	0	0	0	4	0	0	0	4
September	3.45	1.58	.0	4.7	8.2	SW.	27	NW.	0	14	8	8	9	8	0	0	0	4	0	0	0	0	5	4	0	0	4
October	2.21	.75	.1	5.2	9.5	SW.	27	W.	0	13	5	13	10	9	1	1	0	6	0	0	0	0	1	0	2	0	2
November	.66	.24	T	6.2	9.4	SW.	27	SW.	0	9	4	17	9	4	3	0	0	9	2	1	0	0	0	0	8	0	0
December	1.40	.61	2.3	8.6	10.8	SW.	29	NW.	0	3	3	25	11	7	12	5	0	3	0	0	0	7	0	0	18	0	0
Year	33.18	1.97	26.0	6.3	9.4	SW.	35	SW.	3	96	89	180	137	104	59	35	3	35	5	6	1	29	19	5	110	0	31

SANDY HOOK, N. J.

[H=15 ft.; H_b=22 ft.; H_t=10 ft.; H_r=3 ft.; H_a=57 ft.]

January	3.68	1.52	13.1	7.0	16.4	W.	54	NW.	9	7	4	20	14	12	9	7	0	12	0	0	1	10	0	0	20	0	1
February	5.45	1.54	1.6	6.3	15.3	NW.	61	S.	6	8	4	16	12	9	8	5	0	14	6	5	6	2	0	0	15	0	0
March	3.99	.98	2.6	6.2	15.6	W.	43	W.	10	9	7	15	13	12	6	4	1	13	1	1	1	1	0	0	16	0	1
April	3.44	1.32	T	6.7	14.8	W.	48	NW.	9	5	10	15	15	13	3	1	0	13	5	4	3	0	0	0	1	0	3
May	1.34	1.02	.0	4.9	12.0	SW.	39	NE.	1	13	7	11	7	4	0	0	1	15	2	1	0	0	1	0	0	0	5
June	2.62	1.71	.0	5.8	11.2	S.	32	S.	1	7	12	11	8	5	0	0	0	14	3	2	1	0	1	0	0	0	6
July	.91	.39	.0	5.4	10.9	S.	39	W.	1	10	8	13	6	4	0	0	0	12	5	3	3	0	2	0	0	0	3
August	7.31	4.27	.0	6.4	12.3	S.	42	NE.	2	7	10	14	12	11	0	0	0	18	1	1	0	0	2	0	0	0	8
September	1.27	.48	.0	4.5	12.7	S.	40	NE.	2	12	11	7	8	6	0	0	0	19	1	1	0	0	0	0	0	0	2
October	4.50	1.37	.0	5.1	14.2	SW.	41	NW.	8	11	9	11	10	9	0	0	0	18	3	3	3	0	0	0	0	0	2
November	1.33	1.29	T	4.6	17.0	W.	47	NE.	7	13	8	9	2	2	2	0	0	5	1	1	1	0	0	0	2	0	0
December	1.01	.28	2.8	6.5	16.6	W.	51	NW.	11	6	12	13	8	6	10	3	0	10	4	4	3	4	0	0	15	0	0
Year	36.85	4.27	20.1	5.8	14.1	W.	61	S.	67	108	102	155	115	93	38	20	2	163	32	26	22	17	6	0	69	0	31

SAN FRANCISCO, CALIF.

[H=52 ft.; H_b=155 ft.; H_t=112 ft.; H_r=104 ft.; H_a=132 ft.]

January	3.07	1.68	0.0	6.2	6.3	W.	26	SW.	0	7	9	15	7	6	0	0	3	3	1	1	1	0	0	0	0	0	0
February	1.94	.93	.0	4.5	8.2	W.	24	W.	0	11	9	8	7	5	0	0	0	1	0	0	0	0	0	0	0	0	0
March	2.62	1.83	.0	6.4	8.3	W.	26	W.	0	9	4	18	9	6	0	0	0	0	0	0	0	0	0	0	0	0	0
April	.42	.27	.0	5.0	10.4	W.	29	W.	0	10	12	8	3	3	0	0	1	2	2	0	0	0	0	0	0	0	0
May	.63	.35	.0	5.2	11.0	W.	29	W.	0	11	10	10	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
June	T	T	.0	3.3	10.9	W.	30	W.	0	17	9	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
July	T	T	.0	4.6	11.4	W.	34	W.	1	12	12	7	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0
August	T	T	.0	4.7	10.9	W.	28	W.	0	10	15	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
September	1.06	.80	.0	3.4	8.4	W.	26	W.	0	17	9	4	4	4	0	0	0	1	0	0	0	0	4	4	0	0	2
October	.17	.09	.0	3.0	7.5	W.	29	W.	0	24	3	4	3	2	0	0	0	0	0	0	0	0	1	0	0	0	0
November	.20	.20	.0	3.8	5.4	W.	24	SE.	0	16	8	6	1	1	0	0	0	1	1	0	1	0	0	0	0	0	0
December	1.05	.24	.0	6.4	6.0	N.	34	S.	1	6	3	22	10	7	0	0	0	5	2	2	0	0	0	0	0	0	0
Year	11.16	1.83	.0	4.7	8.7	W.	34	W.	2	150	103	112	47	36	0	0	4	19	6	3	2	0	5	4	0	0	2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SAN JUAN, P. R.

[ϕ=18° 28′ N.; λ=66° 07′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.97	30.09	29.88		73.0				69.4			79.2	69.7	74.4	84	66		68					84			
February	29.98	30.11	29.87		73.3				68.8			78.4	69.6	74.0	82	66		66					80			
March	29.96	30.13	29.81		74.0				69.3			79.0	69.2	74.1	84	67		67					79			
April	29.96	30.07	29.82		76.0				71.8			80.2	70.9	75.6	88	67		70					82			
May	29.92	30.02	29.82		78.9				73.6			81.5	73.0	77.2	87	71		72					78			
June	29.95	30.08	29.86		80.5				75.1			82.3	74.6	78.4	87	70		73					78			
July	29.96	30.05	29.88		80.9				75.5			83.7	75.9	79.8	88	71		74					78			
August	29.90	30.02	29.77		80.9				75.8			85.2	75.8	80.5	90	74		74					79			
September	29.89	30.05	29.76		80.6				76.1			85.8	75.6	80.7	89	72		74					82			
October	29.80	29.94	29.54		80.0				75.8			85.6	75.8	80.7	91	70		74	75				83	76		
November	29.83	30.00	29.72		78.5				74.7			84.0	74.4	79.2	89	70		73	74				84	76		
December	29.91	30.06	29.82		75.3				71.7			81.7	72.1	76.9	86	70		70	71				84	75		
Year	29.92	30.13	29.54		77.7				73.1			82.2	73.0	77.6	91	66		71					81			

SANTA FE, N. MEX.

[ϕ=35°41′ N.; λ=105°57′ W.]

January	23.17	23.59	22.70	26.0	23.7	32.9	32.9	22.6	21.1	27.0	27.0	37.8	19.9	28.8	52	7	16	16	17	17	16	67	71	52	53	61
February	23.09	23.43	22.65	20.8	18.0	27.7	29.2	17.8	15.5	22.4	23.6	33.4	13.9	23.6	45	−3	12	10	12	14	12	66	68	49	51	58
March	23.22	23.49	22.84	36.4	32.0	44.6	48.5	30.4	27.5	34.8	36.4	51.6	29.9	40.8	64	8	22	20	22	21	21	56	62	43	35	49
April	23.22	23.47	22.98	44.7	39.2	54.6	58.0	35.7	32.5	40.3	41.5	61.1	37.2	49.2	73	20	25	24	23	22	24	48	54	33	28	41
May	23.23	23.46	22.98	53.1	45.8	65.1	67.4	41.8	38.2	46.3	46.2	71.4	44.8	58.1	80	37	30	29	27	23	27	44	54	26	22	36
June	23.28	23.52	23.04	62.6	54.5	74.3	78.5	45.5	42.8	50.6	51.1	81.1	53.9	67.5	89	45	28	31	30	26	29	28	42	20	15	26
July	23.39	23.62	23.19	64.9	58.2	76.3	75.9	52.3	49.7	56.3	55.5	81.9	56.9	69.4	88	53	43	43	42	41	42	48	59	33	34	44
August	23.38	23.51	23.18	62.7	56.3	75.6	74.0	53.0	49.9	56.0	55.9	80.3	55.3	67.8	87	50	46	45	43	44	44	57	67	32	36	48
September	23.37	23.67	23.14	59.7	54.6	68.8	69.3	50.2	48.1	53.8	53.7	73.9	53.1	63.5	85	42	43	43	43	42	43	57	67	44	44	53
October	23.32	23.54	23.06	45.0	39.8	57.1	59.3	36.7	34.1	42.0	42.9	62.9	37.5	50.2	71	24	27	28	25	25	26	50	62	32	28	43
November	23.37	23.56	23.08	35.7	32.0	46.7	44.8	29.3	27.2	35.2	34.6	52.0	29.2	40.6	64	22	20	19	20	21	20	52	59	37	41	47
December	23.27	23.57	22.84	32.5	29.0	42.0	39.5	26.7	24.6	31.7	31.3	47.7	25.9	36.8	63	3	18	18	17	20	18	55	63	37	46	50
Year	23.28	23.67	22.65	45.3	40.3	55.5	56.4	36.8	34.3	41.4	41.6	61.2	38.1	49.7	89	−3	28	27	27	26	27	52	61	36	36	46

SAULT STE. MARIE, MICH.

Airport [ϕ=46°28′ N.; λ=84°21′ W.] City [ϕ=46°30′ N.; λ=84°21′ W.]

January	29.27	29.67	28.44	15.0	11.8	19.1	17.3	14.4	11.3	17.9	16.4	25.6	7.5	16.6	41	−25	12	10	14	14	12	89	90	79	86	88
February	29.30	29.95	28.35	9.4	6.6	15.2	12.4	9.0	6.3	14.0	11.6	21.2	1.6	11.4	40	−16	7	5	10	9	7	90	93	80	86	89
March	29.36	29.86	28.37	16.1	13.0	24.9	21.1	15.3	12.3	22.6	19.7	28.3	9.3	18.8	50	−14	13	10	18	17	13	86	87	73	82	85
April	29.24	29.65	28.67	29.8	29.0	39.6	34.5	28.2	27.3	35.4	32.0	42.1	27.0	34.6	64	6	26	24	30	28	26	85	84	69	78	81
May	29.28	29.69	28.67	44.0	45.8	58.7	54.1	41.9	43.4	50.2	48.2	61.0	40.7	50.8	82	29	39	41	42	42	42	84	83	57	66	74
June	29.26	29.63	28.74	52.6	55.5	66.3	61.5	50.5	52.6	58.8	55.6	69.2	48.9	59.0	79	39	48	50	54	51	51	87	83	66	71	77
July	29.30	29.58	28.96	55.9	60.1	75.0	69.6	54.1	57.1	63.4	61.3	76.4	53.6	65.0	92	42	53	55	56	56	55	89	84	54	63	73
August	29.28	29.68	28.87	58.6	59.6	72.1	66.5	57.5	58.1	62.9	61.3	74.5	57.1	65.8	84	52	57	57	57	58	58	94	92	61	76	84
September	29.34	29.84	28.87	51.0	50.1	61.1	55.0	49.8	48.8	53.8	51.2	65.0	47.8	56.4	89	31	49	48	48	48	48	92	93	64	77	85
October	29.27	29.72	28.75	39.5	39.6	46.7	42.2	37.9	38.2	42.5	39.7	50.5	36.1	43.3	70	21	36	36	38	36	36	87	88	71	80	84
November	29.52	30.00	28.93	29.9	28.9	36.1	32.4	28.4	27.8	32.7	30.4	38.8	27.0	32.9	47	19	26	26	27	27	27	84	88	70	80	84
December	29.16	29.63	28.62	25.4	23.5	28.6	26.9	24.0	22.4	26.0	25.2	33.0	20.8	26.9	47	4	21	20	20	21	21	83	85	71	78	82
Year	29.30	30.00	28.35	35.6	35.3	45.2	41.1	34.2	33.8	40.0	37.7	48.8	31.4	40.1	92	−25	32	32	34	34	33	88	88	68	77	82

SAVANNAH, GA.

Airport [ϕ=32°01′ N.; λ=81°10′ W.] City [ϕ=32°05′ N.; λ=81°05′ W.]

January	30.05	30.37	29.58		48.0		56.5		45.6		51.0	66.5	45.2	55.8	78	35		42		46	44		82		68	75
February	30.07	30.43	29.62		53.0		59.9		51.0		56.2	70.2	50.4	60.3	80	29		49		53	51		86		79	82
March	30.04	30.46	29.54		55.7		63.6		52.7		56.8	73.9	53.5	63.7	87	39		50		51	51		82		67	74
April	29.96	30.42	29.59		60.5		67.8		57.0		60.4	77.1	57.8	67.4	88	46		54		55	55		81		66	73
May	29.94	30.15	29.72		69.0		72.1		65.4		65.9	82.2	64.3	73.2	92	47		63		62	63		82		72	77
June	29.94	30.09	29.75		77.3		80.1		74.0		74.6	90.9	73.6	82.2	98	69		73		72	72		86		78	82
July	29.93	30.10	29.70	75.5	77.7	88.4	82.0	73.4	74.5	76.8	75.8	91.6	74.0	82.8	97	71	72	73	72	73	72	91	86	60	76	78
August	29.92	30.10	29.72	73.7	75.1	87.5	79.0	72.4	73.0	75.7	74.7	89.9	72.5	81.2	97	66	72	72	71	73	72	94	91	59	82	82
September	29.95	30.14	29.76	72.9	72.7	85.6	78.0	71.3	71.3	74.7	73.7	89.0	71.9	80.4	100	65	71	71	70	72	71	93	94	61	82	82
October	30.00	30.22	29.66	62.0	59.6	78.6	67.8	60.4	58.2	65.8	64.3	81.3	60.8	71.0	91	45	59	57	58	62	59	91	92	51	82	79
November	30.14	30.46	29.76	45.8	43.4	64.5	52.7	44.6	42.5	53.3	49.4	67.5	47.1	57.3	82	35	43	41	42	46	43	91	93	48	78	78
December	29.98	30.36	29.56	46.2	42.2	61.6	50.8	43.7	40.9	50.7	46.2	64.7	43.5	54.1	76	31	41	39	40	41	40	82	89	46	71	72
Year	29.99	30.46	29.54		61.2		67.5		58.8		62.4	78.7	59.6	69.1	100	29		57		59	58		87		75	78

[1] Airport data.
[2] Pressure at airport adjusted to the old (city) elevation of 614 feet.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 65 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SAN JUAN, P. R.

[H=47 ft.; H_b=82 ft.; H_t=10 ft.; H_r=4 ft.; H_a=54 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																			
January	3.11	0.73	0.0	4.7	12.6	E.	31	E.	0	6	23	2	18	16	0	0	0	0	0	0	0	0	0	0	0	0	0
February	2.52	.71	.0	4.6	13.7	E.	34	E.	1	9	18	1	18	13	0	0	0	0	0	0	0	0	0	0	0	0	0
March	1.86	.34	.0	4.2	14.8	E.	33	E.	2	8	21	2	19	13	0	0	0	0	0	0	0	0	0	0	0	0	0
April	4.09	.89	.0	4.5	14.0	E.	27	E.	0	8	21	1	18	15	0	0	0	0	0	0	0	0	0	0	0	0	0
May	9.77	2.56	.0	5.2	11.9	E.	27	E.	0	5	23	3	19	13	0	0	0	0	0	0	0	0	0	0	0	0	6
June	3.17	1.70	.0	5.7	13.2	E.	36	E.	1	7	16	7	12	10	0	0	0	0	0	0	0	0	0	0	0	0	5
July	3.31	.91	.0	4.8	13.0	E.	36	E.	1	8	22	1	18	13	0	0	0	0	0	0	0	0	0	0	0	0	7
August	3.99	1.80	.0	5.9	9.8	E.	27	E.	0	2	21	8	16	13	0	0	0	0	0	0	0	0	1	0	0	0	12
September	6.23	1.62	.0	5.3	8.9	E.	29	NE.	0	6	18	6	15	14	0	0	0	0	0	0	0	0	0	0	0	0	11
October	9.54	1.72	.0	6.4	10.0	E.	31	E.	0	1	20	10	21	20	0	0	0	0	0	0	0	0	2	0	0	0	10
November	6.87	2.41	.0	5.5	10.5	E.	36	N.	2	3	23	4	19	14	0	0	0	0	0	0	0	0	0	0	0	0	2
December	4.72	1.86	.0	5.7	9.0	E.	29	E.	0	2	25	4	15	10	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	59.18	2.56	.0	5.2	11.8	E.	36	E.	7	65	251	49	208	164	0	0	0	0	0	0	0	0	3	0	0	0	53

SANTA FE, N. MEX.

[H=6,994 ft.; H_b=7,013 ft.; H_t=38 ft.; H_r=31 ft.; H_a=53 ft.]

January	1.93	1.02	18.1	4.4	6.5	N.	22	E.	0	16	4	11	11	8	14	11	0	2	0	0	0	3	0	0	30	0	0
February	1.08	.37	10.6	4.6	6.7	N.	21	W.	0	13	6	9	8	8	8	8	0	1	1	0	0	11	0	0	31	2	0
March	.54	.30	1.3	4.9	6.6	N.	22	NW.	0	11	11	9	7	3	6	5	1	3	0	0	0	1	0	0	16	0	2
April	1.19	.43	4.3	4.8	7.2	E.	27	W.	0	9	15	6	6	5	2	2	2	0	0	0	0	0	0	0	8	0	4
May	53	.24	.0	3.9	6.6	E.	24	NE.	0	15	11	5	5	3	0	0	2	0	0	0	0	0	0	0	0	0	6
June	.01	.01	.0	2.7	7.0	SW.	26	SW.	0	16	13	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
July	2.19	.65	.0	5.5	6.0	E.	24	N.	0	10	9	12	11	8	0	0	1	0	0	0	0	0	0	0	0	0	9
August	.94	.31	.0	5.3	5.4	E.	24	NE.	0	7	18	6	10	5	0	0	0	0	0	0	0	0	0	0	0	0	14
September	2.53	1.39	.0	5.1	5.4	E.	20	W.	0	10	12	8	9	8	0	0	0	1	1	0	0	0	0	0	0	0	4
October	1.20	1.13	.0	1.8	5.9	E.	27	SW.	0	25	4	2	3	3	0	0	0	0	0	0	0	0	0	0	2	0	0
November	.74	.42	1.3	3.4	4.9	E.	17	N.	0	19	3	8	4	3	4	2	0	2	0	0	0	0	0	0	23	0	0
December	.57	.32	4.8	3.0	6.1	N.	18	N.	0	17	11	3	5	3	6	5	0	3	0	0	0	5	0	0	23	0	0
Year	13.45	1.39	40.4	4.1	6.2	E.	27	W.	0	168	117	80	80	57	40	33	6	12	2	0	0	20	0	0	133	2	41

SAULT STE. MARIE, MICH.

Airport [H=721 ft.; H_b=724 ft.; H_t=11 ft.; H_r=3 ft.; H_a=43 ft.] City [H=607 ft.; H_b=614 ft.; H_t=11 ft.; H_r=3 ft.; H_a=52 ft.]

January	2.65	0.75	21.6	7.7	8.5	SE.	32	NW.	2	5	4	22	22	14	26	17	0	16	2	2	2	25	0	0	30	9	0
February	2.63	.61	25.5	7.2	9.5	W.	38	SW.	2	7	2	19	23	17	24	23	0	10	0	0	0	24	0	0	28	14	0
March	1.93	.56	21.5	6.8	8.6	NW.	35	W.	1	7	8	16	13	9	20	12	1	16	3	3	2	20	0	0	31	6	1
April	1.93	.71	6.6	6.9	8.8	NW.	27	NW.	0	6	6	18	14	7	12	6	0	12	5	2	2	5	0	0	18	0	0
May	2.37	.49	.0	6.7	7.6	SE.	27	NW.	0	6	10	15	17	12	0	0	0	13	4	2	1	0	0	0	6	0	6
June	5.77	1.78	.0	6.4	7.4	SE.	27	NW.	0	7	8	15	11	8	0	0	1	20	4	3	2	0	0	0	0	0	6
July	.57	.50	.0	4.2	7.0	NW.	30	NW.	0	16	8	7	4	1	0	0	0	16	5	2	1	0	1	0	0	0	4
August	4.80	1.53	.0	6.1	6.1	NW.	21	NW.	0	8	9	14	15	14	0	0	0	23	8	6	4	0	0	0	0	0	7
September	3.03	1.08	T	6.1	7.4	SE.	29	NW.	0	11	3	16	15	10	1	0	0	19	6	6	6	0	0	0	1	0	6
October	4.17	1.04	1.4	7.9	9.2	SE.	30	NW.	0	2	6	23	16	14	9	4	1	17	8	4	3	1	0	0	14	0	4
November	1.40	.95	3.5	8.2	8.5	NW.	34	NW.	1	4	2	24	7	4	10	6	1	19	8	7	7	4	0	0	28	0	1
December	1.14	.54	5.3	7.5	9.0	SE.	35	NW.	2	4	8	19	10	5	15	4	0	19	2	0	0	12	0	0	24	0	0
Year	32.39	1.78	85.4	6.8	8.1	SE.	38	SW.	8	83	74	208	167	115	117	72	4	200	55	37	30	91	1	0	180	29	35

SAVANNAH, GA.

Airport [H=36 ft.; H_b=51 ft.; H_t=18 ft.; H_r=4 ft.; H_a=38 ft.] City [H=42 ft.; H_b=65 ft.; H_t=73 ft.; H_r=71 ft.; H_a=152 ft.]

January	1.17	0.52	0.0	4.6	11.4	W.	37	W.	2	13	10	8	6	5	0	0	0	2	1	0	1	0	0	0	0	0	2
February	5.81	2.02	.0	6.2	11.5	SW.	34	SW.	1	8	5	15	13	12	0	0	0	3	0	0	2	0	0	0	1	0	1
March	1.58	.51	.0	4.6	11.4	SW.	28	SW.	0	14	9	8	5	5	0	0	0	4	0	0	2	0	0	0	0	0	2
April	1.90	.72	.0	4.5	11.4	SW.	32	NW.	1	14	8	8	7	5	0	0	0	0	0	0	0	0	0	0	0	0	4
May	2.22	.53	.0	5.1	9.7	SE.	31	W.	0	10	12	9	9	8	0	0	0	0	0	0	0	0	4	0	0	0	6
June	6.00	1.66	.0	6.3	9.2	SW.	35	SW.	1	5	14	11	15	12	0	0	0	1	0	0	0	0	19	8	0	0	17
July	5.50	1.61	.0	5.5	9.6	SW.	30	NW.	0	6	19	6	14	9	0	0	0	0	0	0	0	0	21	6	0	0	13
August	5.37	1.60	.0	6.2	9.0	SW.	34	W.	2	6	16	9	15	11	0	0	0	3	0	0	0	0	16	2	0	0	14
September	2.90	1.68	.0	5.1	9.3	NE.	31	SW.	0	11	10	9	10	6	0	0	0	0	0	0	0	0	16	6	0	0	2
October	1.10	.43	.0	3.8	8.7	NE.	26	W.	0	18	6	7	4	3	0	0	0	5	0	1	2	0	2	0	0	0	1
November	.67	.65	.0	4.7	8.8	NE.	18	N.	0	13	8	9	3	2	0	0	0	1	0	1	0	0	0	0	0	0	0
December	1.74	1.10	.0	3.4	11.0	W.	26	W.	0	20	4	7	6	5	0	0	0	2	0	1	0	0	0	0	1	0	1
Year	35.96	2.02	.0	5.0	10.1	SW.	37	W.	7	138	121	106	107	83	0	0	0	21	1	3	7	0	78	22	2	0	63

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SCRANTON, PA.

[ϕ=41°24′ N.; λ=75°42′ W.]

Month	Pressure			Temperature (°F.)											Moisture										
		Extremes		Mean											Extremes		Mean								
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.13	29.54	28.52		26.4		29.2		23.9		25.9	34.8	21.0	27.9	57	2		20		20	20		76		66	71
February	29.20	29.76	28.41		28.0		34.4		25.8		30.1	41.6	23.3	32.4	63	4		21		22	21		73		59	66
March	29.18	29.69	28.63		31.2		37.8		28.5		32.9	44.2	26.7	35.4	74	11		23		25	24		72		55	64
April	29.06	29.48	28.64		41.2		48.1		37.9		42.0	54.8	36.7	45.8	84	25		34		35	34		74		63	68
May	29.10	29.41	28.55		56.2		68.2		51.0		57.1	74.9	50.8	62.8	91	33		46		48	47		70		51	68
June	29.13	29.38	28.78		65.0		72.9		58.6		62.4	79.6	58.7	69.2	92	47		54		56	55		69		57	63
July	29.12	29.40	28.77		66.8		77.9		60.8		64.1	83.8	61.8	72.8	94	47		57		55	56		71		48	60
August	29.13	29.40	28.92		67.2		77.1		62.7		66.5	84.9	63.2	74.0	91	56		60		61	60		78		59	68
September	29.19	29.68	28.73		57.1		66.2		53.8		58.5	75.7	52.7	64.2	91	38		51		53	52		81		65	73
October	29.17	29.58	28.58		46.4		53.4		44.1		48.1	60.9	42.5	51.7	86	28		41		43	42		82		68	75
November	29.31	29.66	28.97		33.6		39.8		30.7		35.1	46.3	30.6	38.4	62	22		26		29	27		72		64	68
December	28.99	29.58	28.52		29.9		32.7		27.5		29.8	37.7	25.5	31.6	53	5		23		24	23		73		69	71
Year	29.14	29.76	28.41		45.8		53.1		42.1		46.0	59.9	41.1	50.5	94	2		38		39	38		74		60	67

SEATTLE, WASH.

Airport [ϕ=47°32′ N.; λ=122°18′ W.] City [ϕ=47°36′ N.; λ=122°20′ W.]

	(1 2)	(1 2)	(1 2)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.91	30.52	29.16		43.6		45.9		41.5		43.0	48.2	41.2	44.7	56	34		39		40	39		84		79	82
February	29.96	30.61	29.26		38.4		43.8		36.5		39.5	45.2	36.1	40.6	54	26		34		34	34		83		69	76
March	29.94	30.30	29.48		42.0		51.4		39.8		44.8	52.9	39.8	46.4	71	33		37		37	37		83		62	72
April	29.99	30.46	29.66		47.0		60.2		43.8		48.9	62.2	45.1	53.6	78	40		40		37	38		78		45	51
May	29.91	30.15	29.62		50.0		64.9		47.1		52.8	66.5	48.7	57.6	86	43		44		41	43		81		45	63
June	29.90	30.15	29.47		53.3		65.4		50.8		55.7	67.4	52.2	59.8	79	47		49		48	48		85		55	70
July	[1]29.92	[1]30.24	29.61	61.9	[1]55.4	66.6	[1]74.2	56.5	53.4	58.6	61.0	75.8	56.0	65.9	94	52	53	52	53	52	52	72	88	63	48	68
August	[1]29.89	[1]30.11	29.60	64.5	[1]55.7	67.5	[1]76.2	57.2	53.4	59.3	62.2	76.7	56.6	66.6	91	50	53	52	54	53	52	72	86	62	47	67
September	[1]29.91	[1]30.14	29.56	56.6	[1]51.4	60.9	[1]67.8	53.5	50.3	55.9	58.4	69.5	52.7	61.1	80	47	51	49	52	52	50	82	93	74	58	76
October	[1]29.97	[1]30.45	29.46	50.6	[1]48.1	53.7	[1]57.8	49.0	47.1	50.5	52.2	60.3	48.1	54.2	69	34	47	46	48	47	47	89	94	80	69	81
November	[1]29.98	[1]30.31	29.58	46.8	[1]43.8	48.4	[1]53.6	45.1	42.6	45.9	49.4	56.5	45.5	51.0	63	39	43	41	43	45	43	89	91	83	75	83
December	[1]29.85	[1]30.28	29.18	45.1	[1]43.5	45.5	[1]48.2	43.2	42.4	43.7	45.2	52.0	43.0	47.5	65	28	41	41	42	42	42	87	92	87	80	86
Year	29.93	30.61	29.16		47.7		59.1		45.7		51.1	61.1	47.1	54.1	94	26		44		44	44		86		61	73

SHERIDAN, WYO.

[ϕ=44°48′ N.; λ=106°57′ W.]

January	25.99	26.51	25.66	25.5	24.7	34.6	33.4	22.5	21.9	28.5	28.1	41.2	16.0	28.6	65	−1	17	17	18	19	18	71	73	52	55	63
February	26.01	26.43	25.56	11.2	7.1	22.5	23.7	9.6	6.1	18.5	20.0	29.9	0.8	15.4	48	−28	5	2	10	12	7	76	80	57	60	68
March	26.08	26.46	25.74	27.9	24.8	42.0	43.6	26.0	22.9	33.5	34.9	48.5	20.0	34.2	74	−6	23	20	22	24	22	80	82	48	50	65
April	26.10	26.62	25.73	41.3	35.8	53.2	54.1	36.8	33.1	42.2	42.8	58.9	32.3	45.6	85	12	31	29	30	30	30	70	78	46	47	60
May	26.05	26.40	25.60	50.9	44.6	66.8	67.3	45.6	41.4	51.8	52.3	72.8	41.8	57.3	90	28	40	38	39	39	39	69	78	40	40	57
June	26.04	26.36	25.60	54.4	49.6	65.8	68.8	50.9	47.5	54.4	55.3	72.9	47.1	60.0	93	38	48	46	46	45	46	81	87	50	46	66
July	26.11	26.37	25.80	63.6	56.7	82.7	85.1	56.4	52.7	62.6	63.6	89.4	54.7	72.0	104	43	51	50	50	50	50	66	79	34	32	53
August	26.15	26.53	25.93	58.8	50.6	77.6	77.8	52.8	47.8	58.0	59.5	84.2	48.4	66.3	95	35	48	46	44	47	46	71	84	34	36	56
September	26.12	26.56	25.73	50.3	43.4	69.0	68.4	45.2	40.9	52.8	53.5	75.7	40.5	58.1	91	29	40	38	39	41	40	71	84	40	41	59
October	26.11	26.49	25.66	41.0	37.0	57.2	54.9	36.4	33.6	44.3	43.6	62.6	32.2	47.4	77	24	31	29	30	31	30	70	75	40	44	57
November	26.24	26.48	25.74	28.1	22.0	48.1	45.5	24.6	19.7	36.9	35.2	57.4	18.9	38.2	68	5	18	15	20	19	18	64	74	34	34	52
December	26.10	26.44	25.66	27.8	26.2	40.8	38.6	23.7	22.3	32.2	30.5	48.3	19.3	33.8	77	−6	16	15	19	19	17	61	64	46	48	55
Year	26.09	26.62	25.56	40.1	35.2	55.0	55.1	35.9	32.5	43.0	43.3	61.8	31.0	46.4	104	−28	31	29	31	31	30	71	78	43	44	59

SHREVEPORT, LA.

Airport [ϕ=32°32′ N.; λ=93°45′ W.] City [ϕ=32°30′ N.; λ=93°40′ W.]

	(1 2)	(1 3)	(1 3)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)						(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
January	29.82	30.33	29.23		46.8	56.3	55.7		43.8	48.0	48.3	61.4	43.0	52.2	72	29		40	38	40	39		79	55	58	64
February	29.78	30.40	29.29		46.3	54.1	55.7		43.6	48.7	49.5	60.8	41.5	51.2	78	25		40	43	43	42		80	68	64	71
March	29.82	30.22	29.40		54.3	66.8	67.8		49.7	55.8	57.0	72.0	52.1	62.0	83	33		45	46	48	46		71	49	52	57
April	29.74	30.16	29.23		56.5	70.3	72.1		52.7	58.8	59.7	75.4	54.7	65.0	87	39		49	51	50	50		78	50	48	59
May	29.67	29.94	29.28		66.2	79.7	81.2		63.2	67.3	68.1	84.9	64.5	74.7	94	54		61	60	61	61		85	53	52	63
June	29.68	29.86	29.51		75.2	86.8	86.1		72.3	74.7	74.4	91.7	73.1	82.4	98	68		71	70	69	70		87	58	60	68
July	29.71	29.90	29.57	78.4	75.5	91.6	94.4	73.5	72.9	77.7	76.5	97.3	74.7	86.0	106	69	72	72	72	71	72	80	89	56	56	70
August	29.68	29.84	29.45	77.6	73.8	92.0	90.2	73.2	71.8	77.6	76.3	96.8	73.8	85.3	102	66	71	71	72	70	71	81	91	52	54	69
September	29.72	29.92	29.47	75.2	69.4	90.6	86.0	69.4	67.3	73.5	72.0	94.0	70.7	82.4	103	54	67	66	65	65	66	76	89	44	52	65
October	29.81	30.11	29.59	61.7	56.1	77.3	73.3	57.3	54.3	63.2	61.4	81.4	57.1	69.2	94	39	54	53	52	53	53	76	89	44	50	65
November	29.73	30.42	29.66	48.5	44.3	60.4	57.0	45.4	42.4	51.7	50.2	64.2	44.8	54.5	80	31	41	40	43	43	42	79	88	56	63	72
December	29.78	30.11	29.40	47.9	44.5	58.5	55.6	45.0	42.4	50.7	49.0	63.9	44.9	54.4	83	28	41	40	43	42	42	78	84	60	63	71
Year	29.77	30.42	29.23		59.1	73.7	72.9		56.4	62.3	61.9	78.6	57.9	68.3	106	25		54	55	55	56		84	54	56	68

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 125 feet.
[3] Pressure at airport adjusted to the old (city) station elevation of 249 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SCRANTON, PA.

[H=746 ft.; H_b=805 ft.; H_t=72 ft.; H_r=64 ft.; H_a=104 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																		
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																					
January	2.65	1.09	11.5	7.6	6.5	NW.	33	NW.	1	3	7	21	13	8	17	10	0	5	2	0	0	12	0	0	27	0	0
February	3.72	1.00	5.9	6.2	7.2	SW.	32	SE.	1	6	10	12	14	11	9	8	0	2	0	0	0	4	0	0	25	0	0
March	2.58	.47	6.4	6.3	7.7	NW.	31	SW.	0	6	11	14	12	11	15	5	0	4	1	1	0	5	0	0	24	0	2
April	3.30	.70	.5	7.3	7.4	NW.	28	NW.	0	1	11	18	18	13	8	5	0	3	2	0	0	0	0	0	10	0	3
May	2.17	1.05	.0	4.6	6.4	SW.	23	NW.	0	10	14	7	7	6	0	0	1	2	0	0	0	0	1	0	0	0	6
June	1.29	.40	.0	5.8	6.4	SW.	25	NW.	0	6	14	10	12	8	0	0	0	0	0	0	0	0	1	0	0	0	4
July	.58	.15	.0	5.1	5.9	N.	25	NW.	0	7	19	5	9	6	0	0	0	2	0	0	0	0	6	0	0	0	6
August	3.87	1.57	.0	4.8	5.3	SW.	20	SW.	0	10	14	7	10	10	0	0	0	6	0	0	0	0	5	0	0	0	6
September	2.92	.70	.0	5.2	5.9	SW.	34	NW.	1	8	14	8	11	11	0	0	0	9	0	0	0	0	2	0	0	0	9
October	3.11	.88	T	6.2	6.5	SW.	34	NW.	1	9	8	14	13	13	1	0	2	13	5	4	2	0	0	0	4	0	4
November	.46	.43	.6	4.9	6.8	NW.	30	NW.	0	12	11	7	3	1	7	2	0	5	3	0	0	0	0	0	21	0	0
December	2.58	1.00	9.4	7.3	7.8	NW.	32	NW.	1	3	10	18	12	11	16	6	0	5	1	0	0	8	0	0	22	0	0
Year	29.23	1.57	34.3	5.9	6.6	SW.	34	NW.	5	81	143	141	134	109	73	36	3	56	14	5	2	29	15	0	133	0	40

SEATTLE, WASH.

Airport [H=14 ft.; H_b=30 ft.; H_t=33 ft.; H_r=29 ft.; H_a=45 ft.] City [H=14 ft.; H_b=125 ft.; H_t=90 ft.; H_r=83 ft.; H_a=321 ft.]

January	5.19	1.58	0.0	8.8	11.3	S.	41	SW.	5	0	3	28	25	21	0	0	0	2	0	1	1	0	0	0	0	0	0
February	3.13	1.45	.4	8.1	9.6	S.	34	S.	3	2	7	19	18	12	6	4	1	7	2	0	0	1	0	0	3	0	0
March	2.07	.77	.2	7.1	9.0	S.	34	SW.	2	5	7	19	16	12	2	2	1	11	5	3	4	0	0	0	0	0	0
April	.16	.07	.0	6.6	8.9	S.	30	S.	0	7	9	14	5	2	0	0	0	3	1	1	1	0	0	0	0	0	0
May	1.27	.61	.0	6.7	8.1	N.	28	SW.	0	5	12	14	10	5	0	0	0	2	0	0	0	0	0	0	0	0	0
June	1.58	.32	.0	7.3	8.6	S.	27	SW.	0	4	7	19	16	11	0	0	0	1	0	0	0	0	0	0	0	0	0
July	.64	.29	.0	4.1	8.5	N.	36	SW.	1	16	5	10	8	6	0	0	0	0	0	0	0	0	1	0	0	0	1
August	.59	.25	.0	4.3	7.4	N.	26	S.	0	15	5	11	4	4	0	0	0	1	0	0	0	0	2	0	0	0	0
September	1.30	.89	.0	4.7	7.2	N.	24	SW.	0	13	7	10	8	6	0	0	0	14	2	2	1	0	0	0	0	0	0
October	2.25	.80	.0	6.8	8.9	S.	33	S.	1	6	6	19	14	9	0	0	0	6	2	0	1	0	0	0	0	0	0
November	2.75	.56	.0	7.6	9.4	S.	31	S.	0	3	9	18	12	10	0	0	0	10	3	0	4	0	0	0	0	0	0
December	10.41	1.49	.0	8.6	10.2	S.	42	SW.	6	2	5	24	20	19	0	0	0	8	3	2	2	0	0	0	3	0	0
Year	31.34	1.58	.6	6.7	8.9	S.	42	SW.	18	78	82	205	156	117	8	6	2	65	18	9	14	1	3	0	6	0	1

SHERIDAN, WYO.

[H=3,773 ft.; H_b=3,790 ft.; H_t=10 ft.; H_r=3 ft.; H_a=47 ft.]

January	0.40	0.18	4.6	6.1	5.7	NW.	33	NW.	1	7	13	11	8	4	13	8	0	3	0	0	0	4	0	0	30	1	0
February	.68	.18	8.5	6.2	5.5	NW.	27	NW.	0	4	13	11	11	5	13	11	0	7	1	1	0	12	0	0	28	12	0
March	1.15	.40	12.8	5.1	5.2	S.	20	NW.	0	11	13	7	8	8	8	7	0	1	0	0	0	4	0	0	29	1	0
April	1.96	.65	9.3	5.9	7.1	NW.	27	NW.	0	9	7	14	9	7	7	4	1	0	0	0	0	1	0	0	12	0	2
May	3.82	2.57	T	5.1	5.1	NW.	30	NW.	0	11	10	10	7	6	1	0	3	0	0	0	0	0	1	0	4	0	6
June	2.28	.67	.0	5.4	5.7	NW.	30	NW.	0	7	17	6	15	11	0	0	2	0	0	0	0	0	1	0	0	0	5
July	2.43	1.40	.0	3.3	4.6	S.	26	SE.	0	15	16	0	5	4	0	0	2	0	0	0	0	0	14	5	0	0	5
August	2.22	.71	.0	3.4	4.5	S.	22	NW.	0	18	10	3	6	6	0	0	1	0	0	0	0	0	16	1	0	0	2
September	.75	.44	T	4.2	4.5	S.	18	NW.	0	14	13	3	6	4	1	0	0	2	1	0	0	0	3	0	2	0	2
October	.47	.36	.8	4.8	5.2	NW.	21	NW.	0	11	15	5	5	2	5	3	0	0	0	0	0	0	0	0	16	0	0
November	T	T	.0	2.0	3.8	S.	25	NW.	0	22	7	1	0	0	0	0	0	0	0	0	0	0	0	0	29	0	0
December	.24	.08	2.0	5.5	5.2	NW.	29	NW.	0	8	18	5	9	2	10	6	0	0	0	0	0	7	0	0	28	3	0
Year	16.40	2.57	38.0	4.8	5.2	NW.	33	NW.	1	137	152	76	89	59	58	39	9	13	2	1	0	28	35	6	178	17	22

SHREVEPORT, LA.

Airport [H=173 ft.; H_b=181 ft.; H_t=20 ft.; H_r=16 ft.; H_a=55 ft.] City [H=197 ft.; H_b=249 ft.; H_t=92 ft.; H_r=90 ft.; H_a=227 ft.]

January	6.79	2.67	0.0	5.2	12.4	SE.	44	W.	3	11	11	9	11	11	0	0	0	3	----	----	1	0	0	0	1	0	3
February	8.96	3.57	T	6.1	13.3	S.	42	NW.	6	8	8	12	14	12	1	0	0	5	----	----	1	0	0	0	3	0	8
March	.85	.72	.0	5.4	11.7	S.	31	SW.	0	10	12	9	6	2	0	0	0	2	----	----	0	0	0	0	0	0	2
April	1.11	.38	.0	4.6	12.9	NE.	39	SW.	4	12	12	6	7	5	0	0	0	1	----	----	0	0	0	0	0	0	5
May	3.06	1.16	.0	5.3	9.4	S.	34	SW.	1	9	15	7	9	7	0	0	0	3	----	----	0	0	6	0	0	0	8
June	2.58	1.37	.0	5.9	10.0	S.	39	NW.	0	4	19	7	10	8	0	0	0	1	----	----	0	0	21	11	0	0	11
July	1.82	.70	.0	4.5	10.0	SW.	46	NW.	5	11	17	3	11	10	0	0	0	0	----	----	0	0	29	23	0	0	12
August	2.66	2.44	.0	4.3	8.7	S.	36	SW.	2	14	14	3	5	4	0	0	0	0	----	----	0	0	31	24	0	0	11
September	.69	.33	.0	3.2	9.5	S.	43	SE.	2	20	7	3	5	4	0	0	0	2	----	----	0	0	26	15	0	0	6
October	.70	.51	.0	3.7	10.9	S.	27	NW.	0	17	8	6	6	4	0	0	0	10	----	----	0	0	6	0	0	0	0
November	6.10	3.14	.0	5.2	10.1	NE.	24	NE.	0	12	8	10	7	7	0	0	0	11	----	----	0	0	0	0	1	0	0
December	4.91	4.12	.0	4.7	11.7	SW.	36	W.	1	14	10	7	6	5	0	0	0	8	----	----	0	0	0	0	2	0	2
Year	40.23	4.12	T	4.8	10.9	S.	46	NW.	24	142	141	82	97	79	1	0	0	46	----	----	2	0	119	73	7	0	68

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SIOUX CITY, IOWA

[ϕ=42°30′ N.; λ=96°24′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	28.71	29.23	28.23	28.5	25.3	32.0	32.5	26.1	23.3	28.5	29.2	38.3	20.7	29.5	61	−4	22	19	23	24	22	74	76	68	71	72
February	28.80	29.35	27.96	14.4	12.2	19.7	19.5	12.8	10.9	16.8	16.9	27.0	4.3	15.6	46	−13	8	7	9	10	8	74	78	61	63	69
March	28.82	29.24	28.35	33.4	28.6	41.9	42.3	30.3	26.7	34.8	35.7	47.5	25.4	36.4	85	6	26	24	25	27	26	72	81	52	57	66
April	28.73	29.21	28.29	45.8	40.7	54.8	56.1	40.2	36.8	43.7	45.1	59.7	37.9	48.8	87	18	34	32	30	32	32	63	70	41	44	54
May	28.67	29.14	28.28	64.2	59.8	76.8	77.0	55.0	53.2	59.8	60.0	81.5	56.4	69.0	98	41	48	47	47	47	47	56	65	36	38	49
June	28.66	29.05	28.26	68.9	64.9	77.2	79.6	62.6	60.8	64.5	64.8	82.9	62.0	72.4	98	51	59	58	57	56	58	72	80	53	47	63
July	28.72	29.01	28.47	76.3	70.2	85.8	86.3	66.6	64.7	70.5	71.3	91.2	67.2	79.2	111	57	63	62	63	64	63	71	76	48	50	61
August	28.74	29.01	28.51	68.0	63.5	80.1	80.7	61.9	59.7	65.0	65.7	84.4	60.8	72.6	95	47	58	57	56	57	57	72	80	46	46	61
September	28.76	29.25	28.30	65.8	59.9	78.2	78.2	56.0	52.6	60.5	60.7	84.2	56.3	70.2	103	33	49	47	48	48	48	57	64	37	38	49
October	28.74	29.32	28.24	49.0	43.8	58.9	58.4	42.9	39.7	47.5	47.9	64.7	40.3	52.5	84	22	36	35	36	37	36	62	72	45	48	58
November	29.01	29.49	28.47	35.6	31.1	47.2	46.3	30.4	27.7	38.3	37.8	53.0	27.3	40.2	73	15	22	22	26	26	24	57	68	45	46	54
December	28.78	29.17	28.42	30.3	27.8	36.5	36.8	26.9	25.2	30.6	31.4	42.9	21.9	32.4	71	−1	21	21	22	23	22	70	77	58	59	66
Year	28.76	29.49	27.96	48.6	44.0	57.4	57.8	42.6	40.2	46.7	87.2	63.1	40.0	51.6	111	−13	37	36	37	38	37	67	74	49	51	60

SPOKANE, WASH.

Airport [ϕ=47°40′ N.; λ=117°20′ W.] City [ϕ=47°40′ N.; λ=117°25′ W.]

	[1 2]	[1 2]	[1 2]		[1]	[1 3]	[1]		[1]	[1 3]	[1]						[1]	[1 3]	[1]	[1]		[1]	[1 3]	[1]	[1]	
January	27.98	28.63	27.42		32.5	36.3	37.1		31.1	33.6	34.1	38.9	30.4	34.6	56	20		29	30	30	30		87	78	76	82
February	27.97	28.53	27.28		24.3	31.3	33.2		23.1	27.6	29.1	35.9	20.3	28.1	45	−9		21	22	23	22		86	68	65	75
March	27.98	28.38	27.60		34.1	45.6	48.8		32.3	38.7	40.8	50.5	31.9	41.2	71	14		30	31	32	31		84	61	56	70
April	28.01	28.54	27.65		41.6	57.8	61.9		37.8	44.7	46.6	63.6	39.5	51.6	87	28		33	30	30	32		72	37	32	52
May	27.92	28.22	27.62		48.3	66.4	70.1		42.7	50.6	51.1	71.8	46.0	58.9	92	36		37	36	32	34		65	35	27	46
June	27.91	28.17	27.52		51.2	66.7	68.6		46.0	52.0	52.8	71.6	50.1	60.8	98	40		41	39	39	40		70	40	39	54
July	27.93	28.26	27.69		57.4	76.4	85.0		50.4	58.1	59.5	86.4	58.3	72.4	105	48		44	45	40	42		63	35	24	43
August	27.94	28.20	27.68		56.8	76.9	86.8		48.0	57.1	58.6	87.7	57.5	72.6	101	48		40	42	35	38		55	29	17	36
September	27.95	28.33	27.52		49.1	64.9	74.4		44.6	52.4	54.6	75.9	48.3	62.1	90	38		40	42	38	39		73	45	29	51
October	28.02	28.54	27.41		42.0	51.4	57.8		39.7	45.3	47.3	60.0	39.0	49.5	73	29		37	40	37	37		84	65	49	66
November	28.13	28.42	27.63		34.5	41.1	46.0		32.8	37.6	40.6	48.1	31.2	39.6	57	24		31	34	34	33		87	76	66	77
December	28.01	28.34	27.37		35.1	38.1	39.7		33.4	35.4	36.9	42.3	31.7	37.0	60	20		31	32	34	32		86	79	78	82
Year	27.98	28.63	27.28		42.2	54.4	59.1		38.5	44.4	46.0	61.1	40.4	50.7	105	−9		34	35	34	34		76	54	46	61

SPRINGFIELD, ILL.

Airport [ϕ=39°45′ N.; λ=89°41′ W.] City [ϕ=39°48′ N.; λ=89°39′ W.]

	[1 4]	[1 4]	[1 4]	[1]	[1]	[1]	[1]	[1]	[1]	[1 3]	[1]						[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
January	29.30	29.72	28.74		32.0		37.9		30.3	35.1	34.8	42.1	28.8	35.4	62	13		28		30	29		83		75	79
February	29.37	29.89	28.58		25.7		33.3		24.1	29.3	30.4	39.1	22.0	30.6	60	8		21		25	23		80		71	76
March	29.37	29.81	28.73		36.4		49.5		33.6	40.8	42.4	53.8	34.5	44.2	83	17		30		34	32		76		58	67
April	29.28	29.85	28.65		43.8		54.8		40.5	47.0	46.9	60.0	41.4	50.7	82	24		36		39	38		76		57	66
May	29.28	29.63	28.78		58.9		74.1		54.2	61.4	61.3	78.8	57.3	68.0	94	37		50		52	51		74		48	61
June	29.26	29.63	28.78		68.8		79.6		65.0	69.0	69.3	84.2	66.4	75.3	94	54		63		64	63		82		61	71
July	29.29	29.57	29.04	70.3	70.0	84.4	84.0	66.3	66.4	70.7	71.4	88.7	69.2	79.0	101	60	64	64	64	65	65	82	83	52	55	69
August	29.29	29.55	29.08	66.4	63.9	82.3	78.0	63.7	62.2	69.1	69.4	85.7	64.9	75.3	95	57	62	61	62	65	63	87	91	52	66	79
September	29.33	29.66	29.02	64.3	59.7	83.3	75.0	58.9	56.3	65.8	63.0	86.9	61.7	74.3	100	44	55	54	55	55	55	73	82	40	52	67
October	29.34	29.86	29.00	50.3	47.2	67.5	58.0	46.6	44.5	54.7	50.4	71.9	47.4	59.6	90	30	42	42	44	43	43	77	82	45	61	72
November	29.58	30.02	29.10	36.0	32.8	48.2	42.3	34.0	31.6	41.2	38.2	51.5	35.3	43.4	67	26	31	30	32	33	31	83	88	56	70	79
December	29.30	29.67	28.92	30.3	27.3	40.0	33.3	28.5	26.2	35.2	30.9	43.9	28.6	36.2	63	0	26	24	29	28	26	83	89	66	80	84
Year	29.33	30.02	28.58		47.2		58.3		44.6	51.6	50.7	65.6	46.5	56.0	101	0		42		44	43		82		63	72

SPRINGFIELD, MO.

Airport [ϕ=37°13′ N.; λ=93°15′ W.] City [ϕ=37°12′ N.; λ=93°18′ W.]

	[1 5]	[1 5]	[1 5]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]						[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]	[1]
January	28.59	29.03	28.00		35.3		43.9		32.8		38.3	49.0	32.5	40.8	67	19		29		31	30		78		63	70
February	28.61	29.12	27.96		28.6		38.3		26.6		33.6	44.2	24.4	34.3	64	4		23		26	25		79		64	71
March	28.64	29.02	27.97		41.3		55.0		37.8		45.9	59.1	38.9	49.0	79	21		33		36	35		74		52	63
April	28.57	29.04	28.09		47.5		58.9		43.9		48.8	64.0	44.2	54.1	84	25		40		39	40		76		52	64
May	28.55	28.86	28.14		59.3		72.6		55.7		61.5	76.8	56.8	66.8	90	45		53		54	53		80		55	68
June	28.56	28.84	28.24		68.1		79.0		65.4		69.6	83.9	65.1	74.5	93	53		64		65	64		87		63	75
July	28.58	28.84	28.44	71.7	70.6	87.5	85.2	69.3	68.1	75.4	74.5	91.5	69.7	80.6	100	60	68	67	70	70	69	89	88	58	62	74
August	28.59	28.74	28.40	67.8	65.8	83.9	79.7	65.2	64.2	72.3	70.6	87.0	65.5	76.2	95	52	64	63	67	66	65	87	92	58	65	63
September	28.63	28.91	28.34	68.4	64.0	86.8	79.6	61.4	59.5	68.4	65.1	90.0	65.1	77.6	102	39	57	57	58	57	57	68	78	42	48	59
October	28.66	29.11	28.37	54.1	49.9	71.8	62.4	49.8	47.0	58.2	53.8	74.8	49.5	62.2	92	27	46	44	48	47	46	74	81	44	58	65
November	28.88	29.26	28.46	40.0	36.1	50.6	44.5	37.0	34.1	43.4	40.1	53.2	35.9	44.6	73	24	33	30	35	34	33	76	82	60	70	72
December	28.61	28.94	28.25	36.0	32.6	46.5	39.9	32.9	30.5	39.1	35.0	49.4	32.3	40.8	72	8	28	27	30	29	29	74	81	56	66	69
Year	28.62	29.26	27.96		49.9		61.6		47.1		53.1	68.6	48.3	58.5	102	4		44		46	55		81		60	68

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,929 feet.
[3] Noon local time January to June, inclusive.
[4] Pressure at airport adjusted to the old (city) station elevation of 636 feet.
[5] Pressure at airport adjusted to the old (city) station elevation of 1,324 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SIOUX CITY, IOWA

[H=1,111 ft.; H_b=1,138 ft.; H_t=64 ft.; H_r=57 ft.; H_a=106 ft.]

Month	Precipitation				Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall	Cloudiness 0 to 10	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.00	0.22	6.8	6.9	9.4	NW.	39	NW.	1	4	12	15	8	7	15	6	0	5	2	2	2	8	0	0	29	2	1
February	1.28	.59	15.9	6.4	11.4	NW.	37	NW.	5	5	9	14	6	4	13	6	0	1	0	0	0	14	0	0	28	12	0
March	.96	.32	6.8	4.8	9.4	NW.	39	NW.	2	14	8	9	6	6	8	4	0	6	5	3	0	6	0	0	22	0	1
April	1.92	.86	.5	5.1	11.3	NW.	33	NW.	1	12	9	9	7	6	2	1	0	7	1	1	1	1	0	0	10	0	1
May	2.50	1.40	.0	4.5	9.4	S.	32	SE.	1	16	6	9	6	6	0	0	1	1	0	0	0	0	6	2	0	0	6
June	4.31	1.29	.0	5.3	9.8	S.	32	SE.	2	12	8	10	10	9	0	0	1	1	1	1	0	0	6	2	0	0	9
July	2.14	.71	.0	4.2	8.4	S.	36	SE.	1	13	15	3	11	10	0	0	0	4	0	0	0	0	14	9	0	0	13
August	1.97	1.21	.0	4.9	7.9	SE.	31	NW.	0	12	9	10	11	6	0	0	0	4	0	0	0	0	6	0	0	0	6
September	.31	.21	T	3.3	10.0	S.	36	SE.	1	17	8	5	5	3	1	0	0	1	1	1	0	0	12	7	0	0	2
October	.26	.21	.0	4.6	10.6	NW.	37	NW.	2	15	6	10	4	2	0	0	0	3	1	0	0	0	0	0	8	0	1
November	.03	.03	T	3.6	7.5	S.	26	NW.	0	17	4	9	1	0	3	0	0	2	0	0	0	0	0	0	24	0	0
December	.28	.11	2.7	6.0	8.9	NW.	40	NW.	3	8	10	13	5	3	9	5	0	3	1	0	0	8	0	0	26	2	0
Year	16.96	1.40	32.7	5.0	9.5	S.	40	NW.	19	145	104	116	80	62	51	22	2	38	12	8	3	37	44	20	147	16	40

SPOKANE, WASH.

Airport [H=1,955 ft.; H_b=1,968 ft.; H_t=27 ft.; H_r=25 ft.; H_a=42 ft.] City [H=1,879 ft.; H_b=1,929 ft.; H_t=101 ft.; H_r=94 ft.; H_a=110 ft.]

January	1.55	0.38	6.0	8.5	6.4	S.	21	S.	0	1	6	24	16	14	16	9	0	3	1	0	0	0	0	0	21	0	0
February	2.37	.67	26.3	6.7	6.5	S.	25	SW.	0	7	7	14	14	9	14	13	0	2	0	0	0	5	0	0	27	3	0
March	1.20	.44	14.3	6.9	6.3	S.	18	S.	0	7	5	19	10	7	11	6	0	3	3	2	0	0	0	0	15	0	0
April	.61	.60	T	5.5	7.2	S.	21	S.	0	9	11	10	2	1	1	1	0	0	0	0	0	0	0	0	1	0	0
May	.30	.17	.0	4.9	7.6	S.	24	SW.	0	12	11	8	4	3	0	0	0	0	0	0	0	0	1	0	0	0	0
June	.71	.19	.0	6.2	7.4	S.	25	W.	0	7	10	13	12	7	0	0	1	0	0	0	0	0	2	1	0	0	4
July	.40	.23	.0	2.7	7.2	S.	24	SW.	0	19	10	2	3	2	0	0	0	0	0	0	0	0	14	9	0	0	2
August	.04	.04	.0	1.8	6.2	S.	23	S.	0	27	3	1	1	1	0	0	1	0	0	0	0	0	11	4	0	0	1
September	.23	.13	.0	3.8	6.2	S.	22	SW.	0	17	6	7	3	2	0	0	0	0	0	0	0	0	1	0	0	0	2
October	.95	.37	1.0	6.3	6.3	S.	20	S.	0	9	6	16	7	5	1	1	0	4	1	0	2	0	0	0	7	0	0
November	.28	.15	0	6.1	5.0	N.	30	SW.	0	7	12	11	5	3	0	0	0	15	7	5	10	0	0	0	17	0	0
December	2.83	.78	3.9	8.3	6.2	S.	20	S.	0	4	4	23	17	15	7	4	0	9	4	3	3	4	0	0	15	0	0
Year	11.47	.78	51.5	5.6	6.5	S.	30	SW.	0	126	91	148	94	69	50	34	2	36	16	10	15	9	29	14	103	3	9

SPRINGFIELD, ILL.

Airport [H=602 ft.; H_b=613 ft.; H_t=6 ft.; H_r=3 ft.; H_a=57 ft.] City [H=598 ft.; H_b=636 ft.; H_t=5 ft.; H_r=3 ft.; H_a=191 ft.]

January	2.89	1.40	16.3	7.6	12.4	S.	32	NW.	1	3	9	19	12	11	13	9	0	6	3	2	1	5	0	0	20	0	0
February	3.21	1.39	2.9	7.5	12.8	NW.	38	S.	3	5	4	19	12	8	9	4	1	2	2	1	1	8	0	0	26	0	1
March	4.56	4.10	T	4.9	12.9	S.	34	W.	1	10	11	10	9	5	5	0	2	8	4	3	3	2	0	0	12	0	2
April	5.37	2.80	.1	6.5	12.2	S.	31	N.	0	7	8	15	12	10	3	1	0	8	4	4	3	0	0	0	5	0	3
May	1.62	.84	.0	5.3	10.5	S.	24	NE.	0	10	10	11	9	7	0	0	0	5	2	1	1	0	2	0	0	0	5
June	3.90	1.64	.0	6.3	10.3	S.	35	W.	1	6	13	11	10	9	0	0	0	9	1	1	1	0	9	0	0	0	13
July	1.07	.48	.0	5.8	9.4	S.	29	S.	0	7	12	12	3	3	0	0	0	6	0	0	0	0	14	6	0	0	11
August	5.75	2.04	.0	4.9	9.1	S.	42	N.	2	11	11	9	10	10	0	0	0	5	1	1	1	0	4	0	0	0	12
September	0.14	.14	.0	3.0	10.9	S.	27	S.	0	19	6	5	1	1	0	0	0	0	0	0	0	0	15	6	0	0	1
October	1.99	1.03	.0	4.3	12.3	S.	31	W.	0	14	7	10	7	6	0	0	0	8	2	0	0	0	1	0	1	0	5
November	1.46	.72	T	6.3	10.2	S.	27	N.	0	8	7	15	8	4	1	0	0	4	0	0	0	0	0	0	11	0	1
December	1.09	.64	6.9	6.3	11.9	NW.	29	NW.	0	7	11	13	6	4	9	4	0	6	4	4	3	6	0	0	18	0	0
Year	33.05	4.10	26.2	5.7	11.2	S.	42	N.	8	107	109	149	99	78	40	18	3	67	23	17	14	21	45	12	93	0	54

SPRINGFIELD, MO.

Airport [H=1,357 ft.; H_b=1,360 ft.; H_t=5 ft.; H_r=3 ft.; H_a=60 ft.] City [H=1,300 ft.; H_b=1,324 ft.; H_t=5 ft.; H_r=3 ft.; H_a=78 ft.]

January	2.70	1.15	10.0	5.5	10.1	W.	27	W.	0	11	9	11	7	6	7	4	0	5	1	1	1	1	0	0	16	0	1
February	3.98	1.47	7.8	6.0	10.3	SE.	32	W.	1	8	8	12	10	8	8	3	0	6	1	0	0	5	0	0	25	0	2
March	1.78	.65	1.7	5.0	9.4	S.	27	W.	0	14	8	9	11	8	2	1	0	5	2	1	1	0	0	0	8	0	6
April	3.65	1.17	T	5.8	10.1	SW.	27	SW.	0	9	8	13	10	8	4	0	1	2	0	0	0	0	0	0	4	0	3
May	6.64	2.27	.0	4.7	7.7	SE.	24	E.	0	14	7	10	11	9	0	0	0	5	3	3	2	0	0	0	0	0	8
June	3.68	.94	.0	5.4	8.0	S.	24	S.	0	7	17	6	15	12	0	0	0	1	0	0	0	0	4	0	0	0	13
July	2.83	1.20	.0	3.2	7.6	S.	27	N.	0	17	10	4	6	6	0	0	0	0	0	0	0	0	20	10	0	0	7
August	3.60	1.24	.0	5.0	6.9	E.	24	W.	0	10	14	7	10	8	0	0	0	4	2	2	2	0	10	1	0	0	8
September	.70	.70	.0	2.4	7.7	SE.	24	W.	0	22	7	1	1	1	0	0	0	0	0	0	0	0	20	11	0	0	2
October	2.26	1.22	T	3.3	8.5	S.	25	SW.	0	19	7	5	6	5	1	0	0	1	0	0	0	0	1	0	2	0	2
November	2.77	.76	T	6.3	7.0	S.	24	SW.	0	8	5	17	10	8	1	0	0	10	6	5	5	0	0	0	10	0	0
December	1.66	.99	7.0	5.2	9.2	W.	26	NW.	0	12	9	10	4	3	6	3	0	5	1	1	1	5	0	0	13	0	0
Year	36.25	2.27	26.5	4.8	8.5	S.	32	W.	1	151	109	105	101	82	29	11	1	44	16	13	12	11	55	22	78	0	52

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SYRACUSE, N. Y.

Airport [ϕ=43°04′ N.; λ=77°16′ W.] City [ϕ=43°03′ N.; λ=76°09′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	In. (1 2)	In. (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	°	°	° (1)	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	29.33	29.73	28.66	24.4	22.2	27.8	24.0	22.5	20.9	25.2	22.4	33.1	18.2	25.6	56	−7	19	18	20	19	19	----	76	---	---	---
February	29.39	29.99	28.75	24.8	23.3	30.7	27.7	22.8	21.8	27.9	26.0	37.0	19.3	28.2	61	2	19	19	22	23	21	----	73	---	---	---
March	29.39	29.97	28.77	27.3	27.4	35.4	29.9	25.7	25.5	30.9	27.5	39.4	22.9	31.2	74	5	23	22	23	22	22	----	69	---	---	---
April	29.27	29.71	28.87	37.9	39.2	48.2	42.5	36.2	36.5	41.9	39.2	50.6	35.6	43.1	78	23	34	33	35	35	34	----	73	---	---	---
May	29.33	29.64	28.73	51.2	55.9	69.4	61.8	47.6	50.8	56.1	53.0	71.2	50.5	60.8	91	34	44	46	44	45	45	----	63	---	---	---
June	29.34	29.57	28.95	61.1	65.3	76.1	69.2	57.2	59.3	63.1	61.1	78.1	58.6	68.4	93	47	54	55	55	56	55	----	64	---	---	---
July	29.32	29.60	28.91	63.9	68.1	80.9	75.0	60.3	62.6	66.1	64.7	82.1	63.1	72.6	93	53	58	59	57	58	59	82	74	46	57	65
August	29.33	29.61	29.08	66.0	68.7	82.8	74.0	62.7	64.6	68.4	66.4	84.2	64.3	74.2	93	57	61	62	60	62	62	85	81	48	68	74
September	29.38	29.89	28.99	58.3	58.6	72.1	62.9	54.8	54.9	60.4	57.6	74.7	54.4	64.6	97	40	52	52	53	54	53	82	80	53	73	77
October	29.36	29.82	28.78	47.0	46.6	58.3	50.6	44.2	43.7	49.8	46.4	61.6	42.5	52.0	86	28	41	41	42	42	41	81	82	56	74	78
November	29.53	29.93	29.00	31.9	30.3	41.9	34.8	30.1	28.4	36.0	31.9	43.7	29.8	36.8	68	20	27	25	27	28	26	82	82	56	75	78
December	29.19	29.79	28.66	28.0	27.2	33.2	29.3	26.3	25.6	29.9	27.1	37.1	23.6	30.4	55	−2	23	23	24	23	23	82	83	70	77	80
Year	29.35	29.99	28.66	43.5	44.4	54.7	48.5	40.9	41.2	46.3	43.6	57.7	40.2	49.0	97	−7	38	38	38	39	38	----	75	---	---	---

TACOMA, WASH.

[ϕ=47°15′ N.; λ=122°26′ W.]

January	29.85	30.46	29.11	----	----	45.0	45.2	----	----	42.0	42.4	47.4	39.4	43.4	60	30	----	----	38	39	38	----	----	78	79	78
February	29.90	30.55	29.17	----	----	41.7	42.9	----	----	38.5	39.0	45.1	34.4	39.8	56	22	----	----	34	34	34	----	----	75	72	74
March	29.87	30.23	29.40	----	----	48.1	50.0	----	----	43.1	44.2	51.6	38.5	45.0	71	30	----	----	37	38	38	----	----	68	65	66
April	29.92	30.38	29.59	----	----	56.4	58.7	----	----	47.0	47.7	60.8	43.8	52.3	79	36	----	----	36	35	36	----	----	49	44	46
May	29.85	30.07	29.54	----	----	60.9	63.2	----	----	51.1	51.9	65.3	47.3	56.3	82	40	----	----	42	41	42	----	----	51	46	48
June	29.85	30.07	29.39	----	----	61.6	64.4	----	----	53.8	54.8	66.1	51.0	58.6	77	44	----	----	48	47	48	----	----	61	54	58
July	29.86	30.16	29.53	----	----	69.0	71.4	----	----	58.6	59.1	73.6	55.2	64.4	94	50	----	----	51	50	50	----	----	53	49	51
August	29.83	30.03	29.53	----	----	69.5	73.3	----	----	59.1	60.2	74.9	55.5	65.2	91	49	----	----	52	51	52	----	----	54	48	51
September	29.84	30.06	29.48	----	----	63.9	65.7	----	----	55.7	56.4	67.2	50.9	59.0	78	44	----	----	49	49	49	----	----	60	56	58
October	29.91	30.36	29.38	----	----	54.6	57.6	----	----	50.3	51.6	59.6	46.7	53.2	67	34	----	----	46	46	46	----	----	75	67	71
November	29.91	30.23	29.50	----	----	50.2	53.6	----	----	46.6	49.3	56.1	43.0	49.6	63	37	----	----	43	45	44	----	----	77	74	76
December	29.79	30.20	29.12	----	----	45.7	48.5	----	----	43.3	45.1	50.9	40.9	45.9	65	26	----	----	41	42	42	----	----	84	78	81
Year	29.87	30.55	29.11	----	----	55.6	57.9	----	----	49.1	50.1	59.9	45.6	52.7	94	22	----	----	43	43	43	----	----	65	61	63

TAMPA, FLA.

Airport [ϕ=27°55′ N.; λ=82°27′ W. City [ϕ=27°57′ N.; λ=82°27′ W.]

	(3 4)	(3 4)	(3 4)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)						(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)
January	30.10	30.36	29.81	----	55.7	----	64.4	----	53.5	----	57.7	71.8	53.5	62.6	80	40	----	51	----	52	52	----	86	---	66	76
February	30.09	30.38	29.88	----	61.2	----	69.9	----	59.4	----	64.3	77.9	59.0	68.4	85	35	----	58	----	60	59	----	89	---	73	81
March	30.08	30.35	29.80	----	62.3	----	71.3	----	59.8	----	64.6	80.1	60.2	70.2	87	51	----	58	----	60	59	----	86	---	70	78
April	30.01	30.31	29.77	----	66.3	----	73.3	----	63.4	----	66.2	82.0	63.9	73.0	87	52	----	62	----	62	62	----	85	---	69	77
May	29.96	30.15	29.84	----	70.3	----	76.2	----	67.4	----	69.2	85.1	66.8	76.0	91	60	----	66	----	66	66	----	86	---	71	79
June	29.99	30.15	29.80	----	76.2	----	79.9	----	73.4	----	74.9	88.8	72.9	80.8	93	70	----	72	----	73	72	----	88	---	80	84
July	30.00	30.14	29.86	78.1	78.9	85.2	81.8	74.8	75.5	76.7	75.7	88.8	74.5	81.6	93	69	74	74	73	73	74	86	86	68	76	79
August	29.96	30.16	29.46	76.8	77.5	85.2	79.7	74.2	74.8	76.4	74.8	88.1	73.3	80.7	94	70	73	74	73	73	73	89	88	68	80	81
September	29.96	30.12	29.72	76.5	76.3	86.9	80.7	74.0	74.0	76.4	75.4	89.0	72.8	80.9	92	68	73	73	72	73	73	89	90	62	78	80
October	29.97	30.16	29.70	72.2	70.8	82.9	76.2	69.5	69.2	72.4	70.8	84.5	68.6	76.6	90	52	68	68	67	68	68	87	92	60	77	79
November	30.09	30.31	29.80	59.3	57.8	72.8	65.2	56.0	54.7	62.1	59.5	73.9	55.9	64.9	84	43	53	52	54	56	54	81	82	54	71	72
December	30.03	30.30	29.72	57.1	54.7	68.0	61.4	55.1	53.1	59.6	57.2	70.9	52.6	61.8	79	41	54	52	53	54	53	88	90	62	78	80
Year	30.02	30.38	29.46	----	67.3	----	73.3	----	64.8	----	67.5	81.7	64.5	73.1	94	35	----	63	----	64	64	----	87	---	74	79

TATOOSH ISLAND, WASH.

[ϕ=48°23′ N.; λ=124°44′ W.]

January	29.88	30.55	28.98	44.8	44.4	45.1	44.7	43.0	42.5	42.9	42.6	46.3	41.8	44.0	52	34	41	40	40	40	40	86	86	84	84	85
February	29.98	30.65	29.37	41.0	40.5	41.7	42.3	38.7	38.3	39.0	39.5	44.1	38.0	41.0	48	29	36	35	36	36	36	82	82	79	78	80
March	29.96	30.35	29.45	43.0	42.2	44.0	45.4	40.8	40.3	41.5	42.4	46.7	40.2	43.4	52	35	38	38	38	39	38	83	84	82	79	82
April	30.03	30.51	29.63	47.0	45.6	48.2	49.8	44.1	43.2	44.7	45.4	51.7	43.6	47.6	66	38	41	41	41	41	41	81	83	77	72	78
May	29.97	30.22	29.64	49.8	48.6	51.8	53.4	47.3	46.5	48.5	49.4	55.2	47.0	51.1	65	44	45	44	45	46	45	84	86	79	76	81
June	29.97	30.19	29.47	51.6	50.5	52.6	53.8	50.1	49.2	50.7	51.4	55.3	49.6	52.4	60	46	48	48	49	49	48	90	92	88	85	89
July	29.98	30.30	29.58	54.0	52.6	54.9	56.9	52.7	51.4	52.9	54.2	58.7	51.1	54.9	69	49	52	50	51	52	51	92	93	88	85	90
August	29.95	30.17	29.70	55.6	54.0	56.5	57.7	53.6	52.1	53.6	54.8	60.6	51.7	56.2	74	49	52	50	51	53	52	88	89	84	84	86
September	29.96	30.20	29.61	54.1	52.6	54.4	56.2	52.0	51.3	52.4	53.6	58.2	50.6	54.4	65	47	50	50	51	52	51	88	92	88	85	88
October	29.99	30.50	29.47	50.3	49.7	51.2	51.9	48.6	48.2	49.3	49.6	54.0	47.7	50.8	60	40	47	47	47	47	47	89	90	88	86	88
November	29.95	30.28	29.53	51.2	50.8	51.5	51.8	48.9	48.8	49.2	49.6	54.1	48.6	51.4	62	44	46	47	47	47	47	85	87	86	86	86
December	29.80	30.30	29.02	47.9	48.3	48.9	48.8	45.1	46.2	46.6	46.2	51.3	45.3	48.3	57	40	42	44	44	43	43	81	86	84	82	83
Year	29.95	30.65	28.98	49.2	48.3	50.1	51.1	47.1	46.5	47.6	48.2	53.0	46.3	49.6	74	29	45	44	45	45	45	86	88	84	82	85

[1] Airport data.
[2] Pressure at airport adjusted to the old (city) station elevation of 596 feet.
[3] Airport data beginning with July.
[4] Pressure at airport adjusted to the old (city) station elevation of 35 feet.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

SYRACUSE, N. Y.

Airport [H=400 ft.; H_b=408 ft.; H_t=5 ft.; H_r=3 ft.; H_a=51 ft.] City [H=400 ft.; H_b=596 ft.; H_t=65 ft.; H_r=57 ft.; H_a=79 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*											(1)	(1)	(1)	(1)						
January	2.74	1.38	30.9	8.7	8.2	W.	28	SW.	0	0	7	24	22	13	25	19	0	3	0	0	0	16	0	0	26	2	0
February	2.86	.71	12.5	7.7	8.3	W.	26	SE.	0	3	7	18	14	12	21	8	0	2	0	0	0	7	0	0	27	0	0
March	2.87	.67	16.8	7.3	8.1	W.	26	W.	0	5	6	20	19	11	21	14	0	5	0	0	0	12	0	0	24	0	0
April	2.59	.49	5.4	7.9	7.7	W.	22	W.	0	2	8	20	23	17	11	9	0	7	0	0	0	1	0	0	12	0	2
May	.55	.27	.0	5.1	6.6	NW.	22	W.	0	12	10	9	5	3	0	0	0	2	0	0	0	0	1	0	0	0	3
June	2.21	.68	.0	5.6	6.8	S.	20	S.	0	7	14	9	11	8	0	0	0	2	0	0	0	0	2	0	0	0	4
July	3.08	.82	.0	5.5	6.5	S.	19	NW.	0	9	13	9	9	8	0	0	0	0	0	0	0	0	4	0	0	0	10
August	1.40	.61	.0	4.8	5.7	S.	19	NW.	0	11	14	6	8	6	0	0	0	23	1	0	1	0	3	0	0	0	6
September	1.58	.36	.0	6.3	6.3	S.	28	SW.	0	6	11	13	14	9	0	0	0	18	1	1	1	0	3	1	0	0	7
October	2.79	.67	T	6.5	7.2	S.	23	NW.	0	7	9	15	15	12	7	3	0	21	3	1	1	0	0	0	6	0	5
November	1.16	.42	2.8	5.9	6.9	W.	20	S.	0	10	6	14	8	7	8	5	0	14	1	1	1	1	0	0	17	0	0
December	3.15	1.15	8.8	8.4	8.3	S.	30	NW.	0	2	7	22	20	13	19	14	0	16	2	1	2	11	0	0	22	2	0
Year	26.98	1.38	77.2	6.6	7.2	S.	30	NW.	0	74	112	179	168	119	112	72	0	113	8	4	6	48	13	1	134	4	37

TACOMA, WASH.

[H=107 ft.; H_b=194 ft.; H_t=172 ft.; H_r=165 ft.; H_a=201 ft.]

January	5.25	0.92	T	9.1	9.6	S.	36	S.	4	0	3	28	25	17	1	0	0	7	0	0	4	0	0	0	2	0	0
February	4.82	1.61	2.5	8.4	8.5	S.	30	N.	0	0	8	20	18	14	8	3	0	9	2	3	3	1	0	0	7	0	0
March	2.79	.81	T	7.4	7.9	SW.	30	S.	0	5	4	22	14	13	2	2	4	11	3	3	2	0	0	0	2	0	0
April	.37	.17	.0	6.2	8.3	N.	31	SW.	0	5	14	11	9	3	0	0	0	3	0	0	1	0	0	0	0	0	0
May	1.38	.58	.0	6.1	8.2	N.	26	SW.	0	7	12	12	11	6	0	0	1	0	0	0	0	0	0	0	0	0	0
June	1.20	.31	.0	6.7	8.8	SW.	27	SW.	0	4	11	15	11	8	0	0	0	0	0	0	0	0	0	0	0	0	1
July	1.03	.52	.0	3.6	8.2	N.	27	SW.	0	17	9	5	8	6	0	0	0	0	0	0	0	0	1	0	0	0	1
August	.34	.50	.0	3.7	7.3	N.	24	SW.	0	17	6	8	4	3	0	0	0	5	0	0	0	0	1	0	0	0	1
September	.62	.07	.0	4.0	7.4	N.	26	SW.	0	15	7	8	7	4	0	0	0	10	3	3	3	0	0	0	0	0	0
October	2.49	.82	.0	7.4	7.8	SW.	28	S.	0	3	9	19	10	8	0	0	0	11	5	2	5	0	0	0	0	0	0
November	2.67	.61	.0	8.1	6.7	S.	26	NW.	0	2	7	21	15	13	0	0	0	16	4	3	4	0	0	0	0	0	0
December	8.31	1.81	.0	9.1	7.9	S.	34	S.	2	0	6	25	21	18	0	0	0	14	4	3	7	0	0	0	3	0	0
Year	31.27	1.81	2.5	6.6	8.0	N.	36	S.	6	75	96	194	153	113	11	5	5	86	21	17	29	1	2	0	14	0	3

TAMPA, FLA.

Airport [H=6 ft.; H_b=11 ft.; H_t=5 ft.; H_r=3 ft.; H_a=61 ft.] City [H=23 ft.; H_b=35 ft.; H_t=88 ft.; H_r=81 ft.; H_a=197 ft.]

January	1.35	0.59	0.0	4.0	11.0	N.	40	SE.	2	14	10	7	4	4	0	0	0	7	1	0	2	0	0	0	0	0	1
February	.90	.41	.0	3.7	12.3	S.	32	S.	1	17	7	4	5	4	0	0	0	8	0	0	0	0	0	0	0	0	0
March	1.00	.50	.0	3.2	10.8	S.	25	SW.	0	16	13	2	3	3	0	0	0	9	7	5	5	0	0	0	0	0	2
April	1.17	.42	.0	3.9	11.0	NW.	30	S.	0	16	9	5	7	6	0	0	0	11	2	0	0	0	0	0	0	0	3
May	6.57	2.88	.0	4.2	10.2	E.	40	S.	3	14	12	5	11	8	0	0	1	1	0	0	0	0	4	0	0	0	11
June	9.48	2.25	.0	5.4	9.4	S.	41	S.	7	9	13	8	20	17	0	0	0	0	0	0	0	0	16	0	0	0	20
July	9.21	3.41	.0	5.3	8.6	S.	30	S.	0	6	23	2	13	12	0	0	0	0	0	0	0	0	13	0	0	0	19
August	14.29	3.53	.0	6.0	8.7	S.	45	S.	2	5	14	12	19	16	0	0	0	3	1	0	0	0	11	0	0	0	15
September	4.01	1.30	.0	5.4	8.4	E.	32	N.	2	5	20	5	13	9	0	0	0	1	0	0	0	0	14	0	0	0	13
October	2.38	2.00	.0	4.9	10.2	NE.	32	N.	1	13	7	11	6	2	0	0	0	5	4	1	0	0	0	0	0	0	4
November	.33	.32	.0	4.1	13.1	N.	30	N.	0	14	9	7	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
December	1.02	.53	.0	3.4	10.2	N.	30	N.	0	20	5	6	7	6	0	0	0	6	3	3	3	0	0	0	0	0	1
Year	51.71	3.53	.0	4.5	10.3	E.	45	S.	18	149	142	74	110	89	0	0	1	51	18	9	10	0	58	0	0	0	89

TATOOSH ISLAND, WASH.

[H=99 ft.; H_b=86 ft.; H_t=9 ft.; H_r=3 ft.; H_a=55 ft.]

January	11.32	1.78	0.7	8.9	17.6	E.	57	E.	14	0	4	27	28	27	2	2	2	6	1	2	0	0	0	0	0	0	1
February	7.23	3.16	4.1	7.4	14.4	E.	44	S.	10	6	3	19	17	16	5	5	5	1	0	0	0	0	0	0	3	0	0
March	5.28	.79	.1	7.6	13.3	E.	40	E.	7	4	6	21	17	17	6	5	7	9	5	5	5	0	0	0	0	0	0
April	3.54	1.20	.0	6.6	13.3	SW.	39	S.	6	5	9	16	16	11	0	0	4	3	2	0	0	0	0	0	0	0	0
May	3.87	2.03	.0	6.5	9.5	SW.	42	S.	1	9	7	15	17	12	0	0	0	6	3	2	2	0	0	0	0	0	0
June	2.13	.81	.0	8.3	8.7	SW.	29	E.	0	2	7	21	16	8	0	0	0	14	7	6	4	0	0	0	0	0	0
July	3.75	1.42	.0	6.3	9.3	SW.	27	S.	0	7	9	15	11	8	0	0	1	9	7	6	2	0	0	0	0	0	0
August	.51	.20	.0	5.7	10.7	S.	33	NE.	1	11	7	13	12	3	0	0	0	17	16	14	10	0	0	0	0	0	0
September	2.41	1.79	.0	6.1	10.8	SW.	57	NE.	3	10	6	14	9	5	0	0	0	17	13	15	10	0	0	0	0	0	0
October	8.29	1.96	.0	7.2	14.4	E.	51	S.	11	8	2	21	20	15	0	0	0	10	7	8	7	0	0	0	0	0	0
November	11.91	1.42	.0	9.1	18.5	S.	53	S.	19	0	5	25	24	23	0	0	0	3	2	2	0	0	0	0	0	0	0
December	14.81	1.77	.0	8.5	22.0	E.	61	S.	25	2	4	25	26	25	0	0	0	0	0	0	0	0	0	0	0	0	1
Year	75.05	3.16	4.9	7.4	13.5	S.	61	S.	97	64	69	232	213	170	13	12	19	95	63	60	40	0	0	0	3	0	2

[1] Airport data, August through December.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

TERRE HAUTE, IND.

[ϕ=39°29′ N.; λ=87°24′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	° (1)	°	°	°	° (1)	°	°	°	°	°	°	°	▪ (1)	°	°	%	%	% (1)	%	%
January	29.38	29.81	28.62	33.3	38.9	38.2		31.4	35.0	35.1		43.6	30.1	36.8	64	14	29	29	31	30	83	69	75	79	
February	29.44	29.94	28.75	28.5	34.4	34.6		26.7	30.5	31.2		42.9	24.2	33.6	65	11	23	23	25	24	80	64	67	74	
March	29.43	29.88	28.71	37.7	48.9	49.5		34.8	40.5	41.7		55.6	35.2	45.4	83	18	31	29	32	31	75	49	54	64	
April	29.34	29.94	28.85	44.5	55.4	54.8		41.3	46.4	47.0		60.4	41.5	51.0	82	25	38	36	39	38	77	51	57	67	
May	29.35	29.70	28.83	59.8	75.0	74.1		54.3	60.1	60.5		79.6	57.0	68.3	93	38	50	49	50	50	70	42	46	58	
June	29.33	29.67	28.90	70.1	80.4	79.8		66.1	68.6	68.8		85.2	66.6	75.9	95	51	64	62	63	64	82	57	59	70	
July	29.36	29.63	29.16	70.7	83.9	82.6		65.9	70.6	70.7		88.8	67.5	78.2	100	58	63	64	65	64	78	53	57	68	
August	29.35	29.62	29.12	67.3	83.3	80.9		63.7	68.4	68.6		86.9	65.4	76.2	93	57	62	60	62	62	82	48	55	68	
September	29.39	29.72	29.12	63.4	84.5	79.3		58.3	64.8	63.7		88.0	60.6	74.3	103	43	55	52	54	54	74	34	43	59	
October	29.42	29.88	29.08	50.4	67.6	63.5		46.8	54.1	52.5		72.3	48.2	60.2	93	32	43	41	42	43	76	42	48	62	
November	29.64	30.05	29.22	37.5	49.2	45.9		34.7	41.2	39.6		51.9	35.1	43.5	68	26	31	31	31	31	77	52	60	68	
December	29.36	29.76	28.96	32.6	41.3	38.6		30.1	35.3	34.2		44.8	29.2	37.0	63	1	26	27	28	27	77	58	65	71	
Year	29.40	30.05	28.62	49.6	62.0	60.2		46.0	51.0	51.0		66.7	46.7	56.7	103	1	43	42	44	43	78	52	57	67	

TOLEDO, OHIO

Airport [ϕ=41°41′ N.; λ=83°28′ W.] City [ϕ=41°40′ N.; λ=83°34′ W.]

	(2)	(2)	(2)		(2)		(2)		(2)		(2)							(2)		(2)	(2)		(2)		(2)	(2)
January	29.31	29.69	28.74		28.5		31.1		26.6		28.9	36.7	23.7	30.2	60	7		23		25	24		80		77	78
February	29.36	29.93	28.80		26.3		29.9		24.8		27.1	37.1	20.8	29.0	62	4		22		22	22		81		70	76
March	29.37	29.86	28.78		31.8		37.9		29.4		33.8	43.2	27.9	35.6	80	11		26		28	27		77		67	72
April	29.27	29.85	28.78		39.4		48.7		36.6		41.8	52.8	37.2	45.0	80	22		33		33	33		78		57	67
May	29.31	29.65	28.76		56.0		68.0		51.1		56.6	73.0	52.9	63.0	89	35		46		47	47		71		50	60
June	29.29	29.60	28.86		66.7		74.8		62.1		65.4	81.2	62.9	72.0	91	49		59		60	60		78		63	70
July	29.30	29.55	28.98		66.1		77.9		63.0		67.6	83.0	64.0	73.5	95	52		61		62	61		84		60	72
August	29.30	29.62	29.06		63.9		76.0		61.9		66.2	81.7	63.1	72.4	88	57		61		61	61		90		60	75
September	29.35	29.76	28.98		57.8		69.8		54.8		60.9	78.9	57.0	68.0	100	40		53		56	54		84		62	73
October	29.35	29.78	28.92		45.8		55.1		43.4		48.6	64.0	45.5	54.8	91	31		41		42	42		84		63	73
November	29.55	29.98	29.06		33.5		39.5		31.5		36.4	47.7	33.3	40 5	66	26		29		32	30		83		75	79
December	29.23	29.70	28.79		30.8		33.6		28.9		30.9	39.3	28.6	34.0	56	8		26		27	26		80		75	78
Year	29.33	29.98	28.74		45.6		53.5		42.8		47.0	59.9	43.1	51.5	100	4		40		41	41		81		65	73

TOPEKA, KANS.

[ϕ=39°03′ N.; λ=95°41′ W.]

January	28.91	29.44	28.38	36.0	33.4	43.2	42.5	32.4	30.2	36.5	36.4	48.2	28.8	38.5	74	9	27	25	27	28	27	70	72	57	59	64
February	28.97	29.54	28.30	25.9	22.7	34.8	34.0	22.7	19.9	28.1	28.1	41.1	16.5	28.8	64	−2	15	13	15	16	15	61	64	45	49	55
March	28.97	29.42	28.19	41.8	37.6	51.0	51.9	37.1	34.2	42.8	43.4	57.4	33.9	45.6	84	8	31	30	33	34	32	67	73	55	54	62
April	28.91	29.42	28.49	51.2	46.3	59.2	60.6	45.0	42.7	48.1	48.9	64.9	43.4	54.2	92	23	38	38	37	37	38	62	75	47	46	56
May	28.85	29.26	28.55	65.4	61.6	77.9	78.0	57.7	56.0	61.3	62.0	82.5	58.6	70.6	99	42	52	51	49	51	51	63	70	39	41	53
June	28.83	29.22	28.50	71.1	68.8	82.3	82.5	66.0	65.0	68.7	69.0	87.4	65.1	76.2	98	55	63	63	62	62	63	77	82	51	52	66
July	28.87	29.13	28.62	79.5	75.7	93.5	94.2	69.8	67.9	72.1	72.2	99.1	72.6	85.8	109	63	65	64	62	61	63	63	68	37	36	51
August	28.90	29.07	28.60	73.5	68.9	84.3	84.0	65.7	64.2	69.3	68.9	89.3	66.4	77.8	107	54	61	62	61	61	61	67	79	49	48	61
September	28.93	29.27	28.54	72.1	65.2	85.1	84.9	59.5	56.9	63.6	62.7	90.8	63.3	77.0	108	37	51	51	50	47	50	49	62	31	29	43
October	28.93	29.50	28.52	57.4	52.5	70.2	68.1	48.4	46.3	55.2	53.4	75.6	48.9	62.2	97	31	40	40	42	40	41	53	64	39	39	49
November	29.21	29.66	28.71	41.1	37.8	56.0	49.1	37.2	35.0	43.2	42.2	54.9	34.9	44.9	74	23	32	31	33	34	32	70	76	52	57	64
December	28.96	29.32	28.66	36.6	32.8	44.5	43.3	32.0	29.4	36.5	35.8	49.5	29.9	39.7	77	4	25	24	26	26	25	64	70	50	52	59
Year	28.94	29.66	28.19	54.3	50.3	65.2	64.4	47.8	45.6	52.1	51.9	70.1	46.9	58.4	109	−2	42	41	41	41	42	64	71	46	47	57

TRENTON, N. J.

[ϕ=40°13′ N.; λ=74°46′ W.]

January	29.84	30.25	29.18		29.8		33.2		27.5		29.9	38.2	25.6	31.9	58	10		23		24	24		76		67	71
February	29.90	30.49	29.09		32.9		39.6		30.5		35.0	46.5	29.0	37.8	69	13		26		28	27		75		63	69
March	29.86	30.41	29.22		35.1		42.2		32.0		37.2	48.1	31.0	39.6	70	18		27		30	28		71		62	66
April	29.74	30.19	29.22		44.6		50.6		40.6		44.4	57.5	40.5	49.0	85	28		35		36	36		70		62	66
May	29.76	30.07	29.23		58.7		67.5		53.2		57.6	75.3	53.4	64.4	93	39		48		50	49		69		55	62
June	29.78	30.06	29.44		64.8		73.7		62.4		64.8	81.3	62.2	71.8	96	54		58		59	59		72		63	68
July	29.77	30.04	29.41		69.9		77.3		64.7		67.9	83.8	65.5	74.6	95	55		61		62	62		75		62	69
August	29.76	30.08	29.55		71.7		77.7		67.9		70.2	84.4	68.1	76.2	93	58		66		66	66		83		68	76
September	29.85	30.34	29.35		61.3		68.8		58.7		62.4	77.2	57.3	67.2	95	45		57		58	57		85		70	78
October	29.84	30.30	29.21		50.6		57.4		47.9		51.5	64.9	46.4	55.6	89	34		45		46	45		81		66	74
November	29.97	30.34	29.52		37.7		43.5		33.8		37.3	49.9	34.9	42.4	68	29		28		28	28		66		55	61
December	29.68	30.28	29.20		33.0		37.4		30.3		33.1	42.7	29.4	36.0	61	14		25		26	25		72		61	67
Year	29.81	30.49	29.09		49.2		55.7		45.8		49.3	62.5	45.3	53.9	96	10		42		43	42		75		63	69

[1] Noon local time January to June, inclusive.
[2] Airport data beginning with July.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

TERRE HAUTE, IND.

[H=503 ft.; H_b=575 ft.; H_t=68 ft.; H_r=61 ft.; H_a=149 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	5.16	1.54	14.7	7.6	10.4	SE.	32	W.	1	5	5	21	12	12	12	7	0	5	1	0	0	2	0	0	20	0	1
February	3.62	1.12	7.3	6.5	11.7	S.	39	SE.	1	5	11	12	13	11	10	5	0	5	1	1	1	6	0	0	24	0	2
March	4.14	3.49	.2	4.8	11.3	S.	31	SW.	0	13	8	10	9	6	5	1	0	5	1	0	0	1	0	0	14	0	1
April	7.42	2.51	T	6.1	11.1	SW.	37	SW.	1	9	6	15	13	11	3	1	2	3	0	0	0	0	0	0	5	0	5
May	1.94	.67	.0	4.4	8.9	SE.	25	SE.	0	13	12	6	8	4	0	0	0	2	2	1	1	0	4	0	0	0	3
June	6.16	2.02	.0	5.5	8.2	SW.	38	SW.	2	6	16	8	12	9	0	0	0	6	1	1	1	0	9	0	0	0	10
July	4.38	1.66	.0	5.0	7.3	SE.	29	SW.	0	9	16	6	11	10	0	0	0	8	2	1	1	0	11	4	0	0	11
August	3.57	1.68	.0	4.2	7.3	SW.	30	SW.	0	16	9	6	8	7	0	0	0	11	2	2	1	0	8	0	0	0	11
September	1.17	.89	.0	2.6	8.8	SW.	35	SE.	1	22	6	2	6	5	0	0	0	1	0	0	0	0	15	9	0	0	3
October	1.89	.77	.0	4.3	10.0	S.	29	SW.	0	15	8	8	10	7	0	0	1	1	1	1	1	0	1	0	1	0	4
November	1.39	.85	T	6.2	8.3	SW.	24	W.	0	8	7	15	7	5	2	1	1	4	0	0	0	0	0	0	10	0	0
December	1.49	.91	5.8	6.3	10.1	SW.	25	NW.	0	8	8	15	6	4	7	3	0	3	2	1	1	4	0	0	18	0	0
Year	42.33	3.49	28.0	5.3	9.4	SW.	39	SE.	6	129	112	124	115	91	39	18	4	54	13	8	7	13	48	13	92	0	51

TOLEDO, OHIO

Airport [H=621 ft.; H_b=628 ft.; H_t=5 ft.; H_r=2 ft.; H_a=41 ft.] City [H=589 ft.; H_b=628 ft.; H_t=79 ft.; H_r=72 ft.; H_a=87 ft.]

January	2.53	0.92	16.4	7.7	10.9	W.	32	E.	2	3	8	20	18	13	18	13	0	4	2	0	0	12	0	0	25	0	0
February	4.21	1.91	9.6	6.1	11.6	W.	35	W.	2	8	8	12	14	11	10	7	0	3	0	0	0	11	0	0	26	0	0
March	3.17	1.26	2.6	6.2	11.5	W.	37	W.	1	8	10	13	10	8	10	3	0	4	1	1	1	4	0	0	24	0	1
April	4.77	1.54	.5	6.2	11.8	W.	30	SW.	0	8	10	12	17	12	5	3	0	5	0	0	0	0	0	0	9	0	3
May	1.43	.44	.0	4.0	9.3	SW.	29	W.	0	16	11	4	8	6	0	0	0	2	0	0	0	0	0	0	0	0	3
June	4.91	1.13	.0	4.8	9.1	W.	32	W.	1	10	14	6	16	10	0	0	0	1	0	0	0	0	2	0	0	0	11
July	2.16	.65	.0	3.5	8.4	W.	23	S.	0	20	7	4	9	6	0	0	0	0	0	0	0	0	5	2	0	0	6
August	1.08	.50	.0	3.3	8.4	W.	28	W.	0	18	10	3	6	5	0	0	0	2	2	1	1	0	0	0	0	0	4
September	1.32	.72	.0	3.2	8.8	N.	27	NW.	0	18	8	4	6	6	0	0	0	2	0	0	0	0	5	4	0	0	3
October	2.54	1.49	T	4.5	9.6	W.	31	NW.	0	16	5	10	9	5	1	0	0	3	0	0	0	0	1	0	2	0	4
November	.82	.28	T	5.5	9.9	W.	25	E.	0	12	5	13	7	6	4	0	1	6	2	2	2	0	0	0	12	0	1
December	.98	.27	2.5	7.4	11.6	W.	32	W.	1	6	6	19	12	7	10	6	0	4	0	0	0	8	0	0	18	0	0
Year	29.92	1.91	31.6	5.2	10.1	W.	37	W.	7	143	102	120	132	95	58	32	1	36	7	4	4	35	13	6	116	0	36

TOPEKA, KANS.

[H=926 ft.; H_b=987 ft.; H_t=65 ft.; H_r=61 ft.; H_a=87 ft.]

January	0.70	0.28	6.5	6.0	9.9	W.	29	SW.	0	7	11	13	9	5	7	5	0	2	0	0	0	3	0	0	18	0	0
February	1.52	1.11	9.3	4.9	10.4	NW.	33	S.	1	11	8	9	4	4	9	3	0	2	0	0	0	7	0	0	28	2	1
March	1.27	.51	.2	5.4	9.7	S.	30	NW.	0	13	5	13	9	6	6	2	1	5	1	0	0	0	0	0	13	0	4
April	3.72	2.27	T	5.5	10.7	S.	29	N.	0	8	12	10	11	8	2	2	2	2	0	0	0	0	1	0	4	0	3
May	1.33	.59	.0	4.8	8.9	S.	27	S.	0	9	15	7	8	4	0	0	1	0	0	0	0	0	7	3	0	0	8
June	5.63	1.57	.0	5.4	9.4	S.	32	SW.	1	8	14	8	18	15	0	0	0	0	0	0	0	0	11	5	0	0	14
July	1.26	.70	.0	3.5	9.1	S.	34	W.	1	16	12	3	5	4	0	0	1	0	0	0	0	0	29	21	0	0	8
August	3.51	1.17	.0	5.1	8.3	E.	27	SE.	0	10	14	7	10	8	0	0	0	0	0	0	0	0	17	5	0	0	10
September	.40	.36	.0	2.7	9.5	S.	32	SW.	2	19	10	1	2	2	0	0	0	0	0	0	0	0	18	13	0	0	2
October	.83	.59	.0	3.0	10.3	S.	28	S.	0	19	9	3	4	4	0	0	0	0	0	0	0	0	3	2	1	0	2
November	1.42	1.15	T	4.9	7.8	S.	30	SW.	0	13	7	10	4	3	1	0	0	7	1	0	2	0	0	0	12	0	1
December	.74	.52	4.5	4.9	8.3	W.	25	NW.	0	12	13	6	5	3	7	4	0	1	0	0	0	6	0	0	14	0	0
Year	22.33	2.27	20.5	4.7	9.3	S.	34	W.	5	145	130	90	89	66	32	16	5	19	2	0	2	16	86	49	90	2	53

TRENTON, N. J.

[H=56 ft.; H_b=190 ft.; H_t=89 ft.; H_t=84 ft.; H_a=107 ft.]

January	3.89	1.70	13.5	7.1	9.4	NW.	35	NW.	1	6	7	18	15	11	10	7	0	10	0	0	0	10	0	0	22	0	1
February	5.56	1.60	1.0	6.7	9.7	S.	45	S.	1	9	5	14	12	10	6	3	0	13	6	5	3	2	0	0	16	0	0
March	4.39	.83	3.7	6.8	10.0	NW.	27	NW.	0	5	11	15	14	13	5	4	0	13	4	3	2	0	0	0	18	0	2
April	5.31	1.84	.3	7.0	10.2	W.	30	W.	0	3	13	14	15	14	3	1	0	13	3	3	2	0	0	0	3	0	5
May	1.18	.36	.0	5.7	8.4	S.	25	N.	0	9	12	10	8	6	0	0	0	10	1	1	1	0	2	0	0	0	5
June	6.56	4.12	.0	6.3	8.3	S.	26	NW.	0	4	13	13	10	9	0	0	0	10	2	2	2	0	4	1	0	0	8
July	1.04	.67	.0	5.8	7.5	S.	32	NW.	1	9	11	11	6	4	0	0	0	16	1	1	1	0	4	1	0	0	5
August	7.55	4.38	.0	7.1	7.6	S.	26	S.	0	6	7	18	12	11	0	0	1	20	6	4	4	0	6	0	0	0	8
September	1.48	1.22	.0	5.2	7.7	S.	23	N.	0	11	9	10	6	3	0	0	0	19	5	5	4	0	1	1	0	0	2
October	2.85	1.62	.0	5.7	8.1	N.	31	NW.	0	8	11	12	9	6	0	0	0	15	8	7	7	0	0	0	0	0	2
November	1.59	1.48	T	5.0	9.3	NW.	27	NE.	0	9	13	8	3	3	4	1	0	2	0	0	0	0	0	0	7	0	0
December	1.49	.33	4.9	6.6	9.7	NW.	31	NW.	0	6	10	15	12	9	9	5	0	8	3	3	1	4	0	0	19	0	0
Year	42.89	4.38	23.4	6.2	8.8	S.	45	S.	3	85	122	158	122	99	37	21	1	149	39	34	27	16	17	3	85	0	38

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

VALENTINE, NEBR.

[ϕ=42°50′ N.; λ=100°32′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	27.17	27.69	26.61	27.2	25.1	35.2	33.7	24.9	22.9	30.5	29.6	41.1	20.0	30.6	62	0	21	19	24	24	22	76	78	64	68	72
February	27.23	27.72	26.58	13.5	11.6	17.3	20.3	12.3	10.5	16.9	17.6	27.8	5.0	16.4	50	−17	9	7	11	13	10	82	82	68	72	76
March	27.28	27.67	26.90	33.0	28.0	42.7	43.9	29.5	26.4	34.9	35.7	48.9	25.1	37.0	81	2	25	24	26	26	25	75	84	57	54	68
April	27.24	27.68	26.77	42.6	37.4	53.7	55.5	37.5	34.4	42.6	43.2	58.9	34.7	46.8	88	14	32	31	31	30	31	66	76	44	41	57
May	27.19	27.63	26.81	59.0	54.2	71.2	71.7	52.3	49.4	55.6	56.5	76.5	51.1	63.8	92	38	47	44	43	44	44	67	72	41	44	56
June	27.19	27.55	26.72	61.4	58.1	72.7	74.2	56.5	53.7	59.3	60.2	77.4	54.6	66.0	93	41	53	50	50	51	51	76	78	49	48	63
July	27.26	27.55	26.97	72.3	66.1	85.9	88.8	62.2	59.9	66.7	67.4	91.9	63.1	77.5	108	56	56	56	56	56	56	60	72	38	35	51
August	27.28	27.57	27.05	65.7	59.5	79.5	81.9	58.0	55.4	61.8	61.8	85.7	57.2	71.4	99	43	53	52	50	49	51	66	78	39	34	54
September	27.28	27.81	26.86	61.4	53.6	73.8	75.4	52.2	48.6	56.6	56.4	81.3	50.6	66.0	100	31	45	45	44	43	44	58	73	38	36	51
October	27.26	27.69	26.85	45.3	40.9	57.5	55.5	39.5	37.1	45.2	45.1	62.5	36.6	49.6	83	24	33	33	32	34	33	64	74	43	48	57
November	27.46	27.90	26.95	34.4	28.4	49.5	45.8	29.1	25.5	38.6	36.4	54.7	25.2	40.0	72	12	20	21	25	23	22	55	72	39	42	52
December	27.27	27.60	26.90	29.8	27.6	41.1	37.5	25.4	24.2	32.8	30.9	46.3	22.1	34.2	76	−8	18	19	22	22	20	64	71	52	58	61
Year	27.26	27.90	26.58	45.5	40.9	56.7	57.0	40.0	37.3	45.1	45.1	62.8	37.1	49.9	108	−17	34	33	34	35	34	67	76	48	48	60

VICKSBURG, MISS.

[ϕ=32°22′ N.; λ=90°53′ W.]

January	29.82	30.30	29.16	----	46.4	----	55.8	----	43.0	----	48.4	61.4	43.7	52.6	76	31	----	38	----	41	40	----	75	----	61	68
February	29.80	30.34	29.31	----	46.8	----	56.2	----	44.1	----	49.1	62.3	43.6	53.0	80	29	----	41	----	41	41	----	80	----	60	70
March	29.83	30.26	29.37	----	54.2	----	66.0	----	49.0	----	54.6	71.3	52.0	61.6	84	39	----	43	----	44	43	----	69	----	49	59
April	29.75	30.18	29.32	----	55.9	----	67.7	----	52.2	----	57.3	73.0	54.5	63.8	83	38	----	49	----	49	49	----	78	----	54	66
May	29.69	29.93	29.37	----	65.1	----	75.6	----	62.1	----	66.4	81.8	63.2	72.5	89	51	----	60	----	61	60	----	84	----	63	74
June	29.71	29.93	29.52	----	74.4	----	83.0	----	71.9	----	74.2	88.9	71.9	80.4	94	68	----	71	----	71	71	----	88	----	67	78
July	29.73	29.91	29.56	----	75.6	----	85.4	----	73.0	----	76.1	91.6	73.4	82.5	100	66	----	72	----	72	72	----	89	----	66	78
August	29.70	29.88	29.45	----	74.2	----	84.1	----	71.4	----	74.9	90.7	72.8	81.8	94	68	----	70	----	71	71	----	88	----	66	77
September	29.74	29.92	29.50	----	71.9	----	82.0	----	69.0	----	72.5	88.9	70.4	79.6	97	52	----	68	----	68	68	----	87	----	64	75
October	29.82	30.06	29.68	----	59.3	----	71.6	----	56.1	----	62.1	78.6	57.7	68.2	91	37	----	53	----	56	54	----	82	----	58	70
November	29.97	30.34	29.66	----	46.6	----	58.1	----	43.2	----	49.4	63.5	45.4	54.4	79	30	----	39	----	40	40	----	77	----	54	65
December	29.80	30.14	29.32	----	47.3	----	56.5	----	44.3	----	48.5	62.3	45.2	53.8	78	30	----	40	----	40	40	----	78	----	58	68
Year	29.78	30.34	29.16	----	59.8	----	70.2	----	56.6	----	61.1	76.2	57.8	67.0	100	29	----	54	----	54	54	----	81	----	60	71

WALLA WALLA, WASH.

[ϕ=46°02′ N.; λ=118°20′ W.]

						(1)				(1)								(1)					(1)		
January	29.00	29.61	28.40	----	39.6	44.0	43.9	----	35.6	38.4	39.0	48.1	34.1	41.1	67	25	----	30	31	33	32	----	71	63	67	69
February	29.01	29.57	28.28	----	34.2	38.9	41.4	----	31.1	33.8	35.2	44.7	30.1	37.4	58	5	----	26	26	26	26	----	73	60	56	65
March	28.98	29.37	28.59	----	42.7	50.6	54.1	----	39.0	43.2	44.7	56.0	39.6	47.8	77	24	----	34	35	34	34	----	73	57	50	62
April	29.00	29.52	28.58	----	47.4	61.5	65.9	----	41.0	47.9	49.5	67.2	44.1	55.6	87	33	----	33	33	32	32	----	58	35	29	44
May	28.90	29.15	28.58	----	53.2	69.2	73.1	----	45.6	52.7	53.8	75.0	50.7	62.8	93	41	----	37	36	35	36	----	56	32	28	42
June	28.88	29.14	28.50	----	56.8	70.7	75.0	----	48.8	54.3	55.3	76.8	54.7	65.8	102	47	----	41	40	37	39	----	58	34	28	43
July	28.89	29.24	28.67	----	65.6	----	88.1	----	53.9	----	61.4	89.9	63.8	76.8	109	53	----	44	----	41	42	----	48	----	21	34
August	28.88	29.10	28.64	----	64.9	----	89.8	----	51.8	----	61.0	90.6	62.2	76.4	103	50	----	39	----	37	38	----	40	----	16	28
September	28.91	29.22	28.53	----	58.0	----	78.5	----	49.3	----	57.0	79.7	54.5	67.1	91	46	----	41	----	38	40	----	54	----	26	40
October	29.01	29.50	28.42	----	50.0	58.2	62.9	----	45.2	49.2	51.7	64.9	45.9	55.4	78	35	----	40	41	42	41	----	70	54	48	59
November	29.11	29.38	28.68	----	41.3	46.3	50.4	----	37.5	40.9	43.2	54.0	36.6	45.3	65	27	----	33	34	35	34	----	73	65	57	65
December	29.00	29.32	28.34	----	41.4	43.9	43.4	----	38.2	39.4	39.9	49.3	36.3	42.8	68	25	----	35	34	36	35	----	78	72	77	77
Year	28.96	29.61	28.28	----	49.6	----	63.9	----	43.1	----	49.3	66.4	46.0	56.2	109	5	----	36	----	36	36	----	63	----	42	52

WASHINGTON, D. C.

[ϕ=38°54′ N.; λ=77°03′ W.]

						(1)				(1)								(1)					(1)		
January	29.93	30.37	29.24	----	33.6	40.5	38.9	----	30.6	34.6	34.9	45.3	30.2	37.8	63	17	----	26	25	26	26	----	72	55	59	62
February	29.99	30.55	29.21	----	37.3	44.7	44.8	----	34.2	38.0	38.7	51.1	33.5	42.3	74	17	----	29	28	31	29	----	71	52	56	60
March	29.95	30.51	29.34	----	40.2	49.1	50.1	----	36.3	40.9	41.8	55.6	37.2	46.4	85	23	----	30	30	31	30	----	68	49	50	56
April	29.84	30.31	29.41	----	48.3	57.6	56.1	----	43.6	47.8	47.6	63.2	43.7	53.4	90	31	----	38	37	38	38	----	68	50	55	58
May	29.86	30.14	29.30	----	61.3	73.6	71.7	----	55.8	59.8	60.4	79.1	56.9	68.0	95	40	----	51	49	52	51	----	70	44	52	55
June	29.86	30.12	29.57	----	71.1	79.3	77.6	----	65.5	68.4	68.6	84.1	66.7	75.4	96	59	----	62	63	64	63	----	75	59	64	66
July	29.86	30.12	29.53	----	71.4	81.4	78.0	----	66.7	69.8	69.8	84.5	67.8	76.2	93	58	----	64	64	66	65	----	78	57	67	67
August	29.85	30.13	29.58	----	73.2	85.0	80.3	----	68.3	71.2	71.4	87.5	70.2	78.8	96	64	----	66	64	67	66	----	78	51	65	65
September	29.93	30.38	29.58	----	64.3	77.9	72.0	----	61.3	65.8	65.5	80.3	61.7	71.0	100	51	----	59	59	62	60	----	85	53	71	70
October	29.94	30.41	29.44	----	52.6	64.9	59.3	----	49.7	54.7	53.5	67.9	48.8	58.4	92	35	----	47	46	48	47	----	81	54	68	68
November	30.09	30.43	29.77	----	39.7	52.4	47.0	----	35.8	41.9	40.3	54.7	37.4	46.0	72	30	----	30	28	31	30	----	69	41	57	56
December	29.81	30.39	29.36	----	36.2	44.0	41.6	----	32.6	36.9	35.4	46.8	33.4	40.1	67	21	----	26	26	26	26	----	68	50	54	57
Year	29.91	30.55	29.21	----	52.4	62.5	59.8	----	48.4	52.5	52.3	66.7	49.0	57.8	100	17	----	44	43	45	44	----	74	51	60	62

[1] Noon local time January to June inclusive.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

VALENTINE, NEBR.

[H=2,581 ft.; H_b=2,598 ft.; H_t=46 ft.; H_r=36 ft.; H_a=54 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog			Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.36	1.05	3.7	6.0	9.3	W.	30	NW.	0	5	15	11	5	4	10	4	0	2	0	0	0	2	0	0	29	1	0
February	.66	.54	8.2	5.3	9.9	W.	32	NW.	1	12	4	12	8	4	15	8	0	1	0	0	0	16	0	0	28	9	0
March	.47	.26	3.7	4.7	8.7	W.	28	NW.	0	16	4	11	4	4	10	3	0	3	2	0	1	8	0	0	23	0	0
April	.83	.26	1.1	6.2	10.6	N.	32	NW.	1	7	10	13	10	7	8	6	1	0	0	0	0	1	0	0	11	0	4
May	3.44	1.84	.0	5.6	10.0	N.	32	NW.	1	6	16	9	14	10	0	0	2	2	0	0	0	0	2	0	0	0	12
June	4.09	.89	T	4.6	10.2	S.	36	W.	1	12	12	6	13	10	1	0	1	2	2	0	0	0	3	0	0	0	9
July	2.22	1.22	.0	3.2	9.0	E.	41	NW.	2	20	8	3	9	6	0	0	2	1	0	0	0	0	18	8	0	0	10
August	2.19	1.02	.0	3.5	8.4	W.	30	NW.	0	15	12	4	7	5	0	0	0	2	0	0	0	0	12	3	0	0	5
September	.67	.19	.5	3.4	8.9	S.	27	N.	0	17	8	5	7	6	1	1	0	0	0	0	0	0	11	4	3	0	4
October	1.88	1.76	T	4.5	9.7	W.	25	NW.	0	14	9	8	5	3	2	0	0	2	1	0	0	0	0	0	8	0	0
November	T	T	T	3.3	8.3	W.	25	S.	0	20	5	5	0	0	2	0	0	2	0	0	1	0	0	0	28	0	0
December	.77	.42	9.1	4.9	8.8	W.	32	NW.	1	9	17	5	6	3	7	4	0	2	2	0	0	7	0	0	24	3	0
Year	18.58	1.84	26.3	4.6	9.3	W.	41	NW.	7	153	120	92	88	62	56	26	6	19	7	0	2	34	46	15	154	13	44

VICKSBURG, MISS.

[H=234 ft.; H_b=247 ft.; H_t=82 ft.; H_r=74 ft.; H_a=102 ft.]

January	6.27	2.30	0.0	6.1	9.7	SE.	32	S.	1	9	7	15	12	11	0	0	0	4	----	----	1	0	0	0	1	0	3
February	8.33	3.14	T	6.8	10.7	SE.	30	S.	0	6	7	15	12	9	1	0	0	5	----	----	3	0	0	0	3	0	5
March	5.70	2.85	.0	5.2	9.4	S.	30	W.	0	10	11	10	7	5	0	0	0	3	----	----	1	0	0	0	0	0	4
April	2.76	1.17	.0	5.9	9.9	S.	25	N.	0	10	6	14	9	6	0	0	0	6	----	----	0	0	0	0	0	0	8
May	3.93	1.22	.0	6.7	7.8	SE.	31	NW.	0	6	7	18	12	10	0	0	0	1	----	----	0	0	0	0	0	0	9
June	5.48	2.26	.0	7.0	7.2	S.	24	SW.	0	3	13	14	13	11	0	0	0	0	----	----	0	0	13	0	0	0	13
July	3.65	1.22	.0	5.6	6.9	SW.	29	N.	0	10	11	10	8	7	0	0	0	1	----	----	1	0	23	5	0	0	10
August	2.16	.63	.0	5.2	6.6	SW.	30	SW.	0	9	15	7	10	9	0	0	1	2	----	----	1	0	21	0	0	0	12
September	4.12	2.61	.0	4.8	7.6	S.	35	S.	1	11	12	7	7	6	0	0	0	5	----	----	0	0	14	4	0	0	7
October	2.15	1.35	.0	3.8	8.2	N.	27	NW.	0	17	8	6	4	3	0	0	0	3	----	----	1	0	2	0	0	0	2
November	1.18	.52	.0	5.7	8.4	N.	19	N.	0	10	7	13	5	4	0	0	0	1	----	----	0	0	0	0	4	0	1
December	4.23	1.94	.0	5.1	8.3	SW.	34	W.	1	12	6	13	9	7	0	0	0	5	----	----	2	0	0	0	1	0	1
Year	49.96	3.14	T	5.7	8.4	S.	35	S.	3	113	110	142	108	88	1	0	1	36	----	----	10	0	73	9	9	0	75

WALLA WALLA, WASH.

[H=949 ft.; H_b=991 ft.; H_t=57 ft.; H_r=50 ft.; H_a=65 ft.]

January	1.30	0.35	0.7	7.8	6.0	S.	28	W.	0	4	7	20	12	9	3	1	1	7	3	1	3	0	0	0	13	0	1
February	2.01	1.01	7.0	7.6	6.9	S.	27	W.	0	3	7	18	12	11	11	5	1	2	0	0	0	3	0	0	15	0	0
March	1.84	.86	3.0	6.5	5.8	S.	24	SW.	0	8	6	17	11	6	5	3	1	3	2	0	1	0	0	0	3	0	0
April	.60	.42	.0	5.7	6.2	S.	26	W.	0	9	10	11	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0
May	.35	.15	.0	5.4	5.8	S.	22	SW.	0	12	8	11	6	3	0	0	0	0	0	0	0	0	2	0	0	0	0
June	.75	.36	.0	6.1	6.9	S.	18	W.	0	5	13	12	8	6	0	0	0	0	0	0	0	0	2	2	0	0	1
July	.54	.52	.0	3.2	6.3	S.	24	NW.	0	19	5	7	2	1	0	0	0	0	0	0	0	0	16	12	0	0	1
August	T	T	.0	2.5	5.8	S.	19	S.	0	21	7	3	0	0	0	0	0	0	0	0	0	0	17	7	0	0	1
September	.38	.19	.0	3.5	5.5	S.	19	SW.	0	19	3	8	4	4	0	0	0	0	0	0	0	0	3	0	0	0	0
October	1.40	.39	.0	6.1	5.5	S.	21	W.	0	11	4	16	8	6	0	0	0	0	0	0	0	0	0	0	0	0	0
November	.11	.10	.0	6.4	4.6	SE.	26	SW.	0	7	10	13	3	1	0	0	0	1	1	1	0	0	0	0	9	0	0
December	2.35	.53	1.2	9.0	5.5	S.	24	W.	0	1	5	25	18	14	4	2	0	8	7	5	4	1	0	0	8	0	0
Year	11.63	1.01	11.9	5.8	5.9	S.	28	W.	0	119	85	161	87	64	23	11	3	21	13	7	9	4	40	21	48	0	4

WASHINGTON, D. C.

[H=72 ft.; H_b=112 ft.; H_t=62 ft.; H_r=42 ft.; H_a=85 ft.]

January	3.41	1.89	6.3	6.5	7.2	NW.	34	NW.	2	7	9	15	11	6	7	4	0	13	2	2	0	3	0	0	16	0	0
February	5.71	1.23	.3	6.0	7.5	S.	28	NW.	0	10	2	16	11	10	1	1	0	13	5	1	0	1	0	0	11	0	1
March	2.89	.83	T	5.3	8.0	NW.	34	NW.	1	12	7	12	10	9	3	0	0	9	1	0	0	0	0	0	8	0	1
April	3.78	1.09	T	6.0	8.3	NW.	26	NW.	0	10	7	13	15	9	1	0	1	8	3	0	1	0	0	0	1	0	2
May	.41	.19	.0	4.9	6.2	SW.	19	NE.	0	11	12	8	3	3	0	0	0	0	0	0	0	0	6	1	0	0	2
June	4.55	2.04	.0	5.8	6.3	SW.	34	SW.	1	9	8	13	12	11	0	0	1	3	0	0	0	0	6	2	0	0	8
July	2.01	.45	.0	5.8	5.7	NW.	23	NW.	0	7	15	9	15	13	0	0	0	4	1	0	0	0	7	0	0	0	6
August	3.22	2.83	.0	5.5	5.8	SW.	16	E.	0	10	11	10	7	4	0	0	0	7	2	0	0	0	13	2	0	0	5
September	6.90	4.49	.0	5.0	5.5	S.	26	NE.	0	11	11	8	6	5	0	0	0	17	6	0	0	0	1	1	0	0	4
October	4.06	2.02	.0	5.2	5.6	NW.	27	NW.	0	10	10	11	9	8	0	0	0	15	2	0	2	0	2	0	0	0	2
November	1.40	1.19	.4	4.6	7.1	NW.	22	NW.	0	14	7	9	6	4	3	3	0	5	1	1	0	0	0	0	3	0	0
December	2.20	.75	4.4	6.1	7.6	NW.	34	NW.	1	6	12	13	11	7	6	4	0	7	3	1	0	1	0	0	13	0	0
Year	40.54	4.49	11.4	5.6	6.7	NW.	34	NW.	5	117	111	137	116	89	21	12	2	101	26	5	3	5	35	6	52	0	31

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

WICHITA, KANS.

Airport [ϕ=37°38′ N.; λ=97°17′ W.] City [ϕ=37°41′ N.; λ=97° 20′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1 2)	*In.* (1 2)	*In.* (1 2)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	° (1)	■	■	°	°	°	° (1)	° (1)	° (1)	° (1)	° (1)	% (1)	% (1)	% (1)	% (1)	% (1)
January	28.53	29.11	28.02	----	34.6	45.1	44.7	----	31.7	37.7	38.0	49.5	31.5	40.5	65	18	----	27	27	29	28	----	73	52	55	64
February	28.57	29.14	27.96	----	24.9	33.0	36.6	----	21.8	27.0	29.8	41.8	18.8	30.3	62	−3	----	15	15	18	16	----	66	48	48	57
March	28.58	29.00	27.85	----	39.7	52.5	55.5	----	36.1	45.1	44.9	59.7	36.2	48.0	78	17	----	31	30	32	32	----	73	48	46	60
April	28.53	29.02	27.98	----	47.6	58.5	62.4	----	43.0	47.8	49.8	65.5	44.7	55.1	84	28	----	38	37	37	38	----	69	46	42	55
May	28.47	28.89	28.13	----	60.5	76.0	75.7	----	55.0	60.6	61.3	80.3	58.5	69.4	97	43	----	50	50	52	51	----	71	42	46	58
June	28.46	28.86	28.06	----	67.9	80.6	83.5	----	63.9	67.7	67.7	87.0	65.9	76.4	98	54	----	62	61	59	60	----	81	52	46	63
July	28.51	28.75	28.27	77.2	72.6	91.0	92.3	68.7	66.8	72.1	71.8	96.1	72.8	84.4	104	64	64	64	63	62	63	66	75	41	38	56
August	28.50	28.74	28.21	73.9	69.1	87.8	87.1	66.0	64.1	70.2	69.5	91.7	68.4	80.0	105	57	62	61	61	60	60	68	77	43	43	60
September	28.55	28.87	28.17	72.0	65.1	86.8	84.7	59.3	56.6	65.1	63.4	90.0	65.1	77.6	106	38	50	50	52	49	50	48	60	31	31	45
October	28.56	29.04	28.14	57.4	52.9	73.7	68.4	48.9	46.8	57.4	53.7	76.5	51.6	64.0	95	35	40	40	44	40	40	54	64	37	38	51
November	28.81	29.24	28.33	40.1	37.6	53.2	48.7	36.2	34.7	44.2	41.3	56.1	36.2	46.2	71	19	31	30	34	31	31	69	76	50	54	65
December	28.57	28.95	28.24	36.4	32.3	48.5	43.8	31.6	28.7	38.7	35.4	51.9	30.3	41.1	75	5	24	23	26	23	23	64	69	46	50	59
Year	28.55	29.24	27.85	----	50.4	65.6	65.3	----	45.8	52.8	52.2	70.5	48.3	59.4	106	−3	----	41	42	41	41	----	71	45	45	58
WILLISTON, N. DAK. [ϕ=48°09′ N.; λ=103°35′ W.]																										
January	27.88	28.36	27.51	18.0	15.4	21.6	22.2	17.2	14.7	19.5	20.6	29.1	8.7	18.9	43	−17	15	13	16	18	16	89	89	79	81	84
February	28.02	28.55	27.54	−1.6	−4.0	4.0	6.7	−2.0	−4.4	2.8	5.3	11.7	−11.5	.1	42	−37	−4	−7	−2	0	3	89	87	75	72	81
March	28.04	28.52	27.60	21.6	17.3	29.2	32.6	19.9	16.3	24.8	27.4	36.1	13.8	25.0	73	−15	17	14	18	20	17	83	88	64	62	74
April	28.00	28.51	27.64	40.5	34.8	49.6	53.7	34.8	31.4	39.2	41.1	57.1	32.8	45.0	88	9	27	27	27	26	27	62	74	43	39	54
May	27.90	28.30	27.48	56.0	50.3	65.8	69.0	49.3	45.9	52.5	53.9	71.7	48.7	60.2	89	29	43	42	41	41	42	65	74	44	40	56
June	27.91	28.23	27.51	54.8	51.5	64.3	66.1	51.2	48.8	54.8	56.1	68.9	49.1	59.0	83	39	38	47	48	49	46	80	84	57	57	70
July	27.93	28.28	27.65	68.1	63.5	83.0	85.0	59.1	57.7	63.6	63.5	88.2	61.0	74.6	102	52	53	54	52	50	52	60	73	36	32	50
August	27.97	28.27	27.69	63.6	56.5	76.0	79.3	54.3	51.3	59.5	59.6	82.5	54.6	68.6	98	43	48	47	48	46	47	58	73	41	34	52
September	27.96	28.51	27.52	53.7	48.6	66.5	69.5	46.8	44.6	52.8	53.4	73.0	45.8	59.4	94	23	40	41	42	40	41	64	77	44	39	56
October	27.97	28.46	27.56	39.4	35.5	46.4	46.9	35.3	32.6	38.8	39.3	53.0	30.9	42.0	73	10	30	29	30	30	30	70	77	54	55	64
November	28.12	28.57	27.49	33.0	27.5	41.7	41.8	29.1	25.3	34.8	34.8	49.4	24.2	46.8	63	6	23	22	25	25	24	66	78	52	52	62
December	27.96	28.34	27.37	27.0	24.1	31.5	31.2	24.1	21.8	26.9	26.7	38.0	18.8	28.4	63	−13	19	18	20	20	20	73	78	66	66	71
Year	27.97	28.57	27.37	39.5	35.1	48.3	50.3	34.9	32.2	39.2	40.1	54.9	31.4	43.2	102	−37	29	29	30	30	30	72	79	55	52	64
WILMINGTON, N. C. [ϕ=34°14′ N.; λ=77°57′ W.]																										
January	30.03	30.48	29.46	47.1	44.6	57.6	52.2	44.1	42.1	50.3	47.8	60.6	40.1	50.4	73	30	41	39	43	43	42	79	81	60	72	73
February	30.08	30.51	29.56	53.1	50.8	60.5	56.1	50.3	48.5	53.0	52.1	64.5	45.8	55.2	78	24	47	46	45	48	46	81	83	60	75	75
March	30.03	30.50	29.48	54.9	52.7	65.3	59.2	51.1	49.2	54.1	53.4	68.2	49.1	58.6	83	32	47	46	43	48	46	77	78	48	68	68
April	29.95	30.40	29.58	58.9	57.8	69.4	63.6	55.5	54.2	57.3	56.8	71.2	53.6	62.4	84	41	52	51	47	51	50	81	79	47	66	68
May	29.96	30.21	29.66	64.2	65.6	75.5	69.4	62.0	62.3	64.8	63.6	78.1	60.7	69.4	88	40	60	60	58	60	60	88	84	57	73	76
June	29.94	30.11	29.72	75.5	77.3	84.6	78.8	73.2	74.0	75.2	73.7	87.0	72.6	79.8	96	67	72	72	71	72	72	90	86	65	79	80
July	29.93	30.12	29.67	75.7	76.6	84.8	79.2	72.5	72.6	74.4	73.4	86.5	72.0	79.2	92	66	71	71	70	71	71	86	83	62	76	77
August	29.92	30.17	29.69	75.1	75.7	82.7	77.8	73.3	73.5	74.5	74.0	85.8	71.9	78.8	92	63	72	72	71	72	72	92	90	69	84	84
September	29.95	30.25	29.75	71.6	70.5	83.0	76.3	69.7	68.5	73.5	72.0	84.4	68.4	76.4	98	58	69	68	69	70	69	91	91	64	82	82
October	29.99	30.31	29.56	63.1	60.6	74.3	66.8	60.4	58.5	63.9	62.1	76.2	57.4	66.8	87	42	58	57	57	59	58	86	88	58	77	77
November	30.13	30.45	29.72	47.7	44.4	59.4	52.7	44.4	41.8	48.8	47.3	61.7	42.2	52.0	75	29	41	39	37	41	40	78	81	48	68	69
December	29.94	30.43	29.50	45.3	42.4	55.2	49.1	42.7	40.1	47.4	45.0	57.5	38.9	48.2	73	25	40	37	39	40	39	81	82	57	73	73
Year	29.99	30.51	29.46	61.0	59.9	71.0	65.1	58.3	57.1	61.4	60.1	73.4	56.1	64.8	98	24	56	55	54	56	55	84	84	58	74	75
WINNEMUCCA, NEV. [ϕ=40°58′ N.; λ=117°43′ W.]																										
January	25.67	26.12	25.20	27.6	23.6	31.5	38.1	25.8	22.2	28.7	32.4	42.0	18.7	30.4	53	9	23	20	24	25	23	82	86	74	58	75
February	25.64	26.09	25.04	24.7	20.8	30.2	34.8	23.0	19.4	26.0	29.1	37.9	15.7	26.8	46	−5	20	17	19	20	19	82	86	62	54	71
March	25.62	25.94	25.22	37.9	32.1	48.2	52.7	33.8	29.9	38.4	40.2	55.9	28.1	42.0	72	11	29	27	27	26	27	70	81	45	40	59
April	25.63	26.02	25.36	47.6	38.9	60.9	67.0	38.0	33.1	43.9	46.1	69.6	35.4	52.5	81	25	26	25	24	22	24	43	58	27	20	37
May	25.56	25.73	25.30	54.6	45.1	67.1	71.7	43.0	37.6	48.5	50.1	75.2	41.9	58.6	92	29	30	28	30	29	29	42	52	27	23	36
June	25.56	25.85	25.18	60.7	48.6	71.4	78.2	45.2	39.9	50.3	52.6	80.9	45.8	63.4	96	33	29	30	30	29	30	32	51	24	19	32
July	25.62	25.82	25.37	70.8	58.0	84.4	89.9	51.8	46.8	57.5	59.1	93.2	55.5	74.4	102	46	35	36	37	36	36	28	45	20	16	27
August	25.62	25.74	25.45	69.4	56.8	84.3	91.3	49.5	43.8	56.1	58.1	94.2	52.5	73.4	102	40	30	30	32	31	31	24	37	16	12	22
September	25.63	25.90	25.26	57.5	45.8	72.0	76.8	45.0	39.0	51.8	53.3	81.9	42.2	62.0	97	27	32	31	33	32	32	40	56	27	22	36
October	25.70	26.06	25.08	43.8	38.4	56.5	61.2	38.9	35.6	44.7	46.4	65.5	33.7	49.6	77	13	33	32	33	32	32	68	81	43	38	58
November	25.76	25.91	25.49	33.5	26.6	45.3	53.6	28.7	23.9	35.2	39.8	59.2	22.7	41.0	71	16	21	19	21	22	21	59	70	40	32	50
December	25.70	25.95	25.21	34.6	29.6	39.8	45.2	31.0	27.6	34.8	37.6	50.2	24.3	37.2	70	2	26	25	28	28	27	74	85	66	55	70
Year	25.64	26.12	25.04	46.9	38.7	57.6	63.4	37.8	33.2	43.0	45.4	67.1	34.7	50.9	102	−5	28	27	28	28	28	54	66	39	32	48

[1] Airport data beginning with July.
[2] Pressure at airport adjusted to the old (city) station elevation of 1,358.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

WICHITA, KANS.

Airport [H=1,375 ft.; H_b=1,392 ft.; H_t=6 ft.; H_r=3 ft.; H_a=64 ft.] City [H=1,300 ft.; H_b=1,358 ft.; H_t=85 ft.; H_r=78 ft.; H_a=93 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	1.09	0.50	3.0	5.6	10.9	S.	30	S.	0	9	10	12	5	4	7	3	0	4	0	0	0	1	0	0	18	0	0
February	1.93	1.32	7.7	3.5	11.4	S.	35	S.	1	16	5	7	7	6	6	5	0	3	0	0	0	7	0	0	27	1	0
March	1.57	.60	1.5	4.8	11.1	S.	35	SW.	3	14	6	11	10	4	3	1	0	8	1	0	0	1	0	0	11	0	4
April	2.14	1.54	T	5.1	11.6	N.	28	SW.	0	11	10	9	9	5	3	0	0	1	0	0	0	0	0	0	4	0	5
May	3.25	1.80	.0	4.5	10.4	SE.	33	S.	1	14	9	8	7	7	0	0	1	1	0	0	0	0	4	1	0	0	8
June	8.90	2.91	.0	4.5	10.8	SE.	38	NW.	1	13	12	5	13	13	0	0	1	3	1	1	0	0	7	4	0	0	15
July	.72	.30	.0	2.7	10.5	S.	24	S.	0	20	7	4	7	4	0	0	0	0	0	0	0	0	25	20	0	0	10
August	5.84	4.33	.0	4.0	9.8	SE.	38	NE.	1	13	15	3	7	7	0	0	1	0	0	0	0	0	21	9	0	0	10
September	.30	.19	.0	1.9	10.6	S.	29	SW.	0	25	4	1	5	2	0	0	0	0	0	0	0	0	18	11	0	0	2
October	1.14	1.03	.0	2.1	11.3	S.	28	SW.	0	24	4	3	4	4	0	0	0	0	0	0	0	0	2	1	0	0	2
November	.81	.47	.0	4.6	8.6	S.	30	SW.	0	16	2	12	6	4	0	0	0	6	1	0	0	0	0	0	9	0	0
December	.95	.44	5.0	3.5	8.9	NW.	24	NW.	0	20	3	8	4	4	6	4	0	5	0	0	0	4	0	0	15	0	0
Year	28.64	4.33	17.2	3.9	10.5	S.	38	NE.	7	195	87	83	84	64	25	13	3	31	3	1	0	13	77	46	84	1	56

WILLISTON, N. DAK.

[H=1,877 ft.; H_b=1,878 ft.; H_t=42 ft.; H_r=34 ft.; H_a=50 ft.]

January	0.77	0.51	8.5	5.8	7.0	SE.	29	NW.	0	9	10	12	8	5	18	8	0	7	0	0	0	17	0	0	31	6	0
February	.37	.17	4.6	4.6	7.3	N.	22	NE.	0	11	11	6	5	4	17	5	0	2	1	0	0	25	0	0	28	21	0
March	.29	.14	2.9	3.2	7.6	SW.	30	NW.	0	20	7	4	5	3	8	5	0	2	1	1	1	14	0	0	24	8	0
April	.65	.42	.4	3.9	9.4	N.	26	NW.	0	14	11	5	4	4	4	1	1	0	0	0	0	1	0	0	14	0	0
May	1.98	.57	.0	3.6	9.3	W.	35	NW.	2	19	7	5	15	7	0	0	0	0	0	0	0	0	0	0	1	0	8
June	3.99	1.11	.0	5.4	8.2	SE.	32	W.	1	12	8	10	13	10	0	0	1	3	3	3	2	0	0	0	0	0	9
July	1.09	.60	.0	2.5	7.8	SE.	35	NW.	1	20	11	0	8	7	0	0	1	1	1	1	0	0	13	7	0	0	9
August	2.31	.65	.0	2.7	7.2	SE.	36	W.	1	21	7	3	11	7	0	0	1	0	0	0	0	0	7	3	0	0	6
September	.99	.70	.1	3.6	7.5	SW.	26	N.	0	18	7	5	8	5	1	1	0	2	1	0	0	0	2	0	3	0	2
October	.31	.23	.1	5.3	8.9	NW.	32	NW	1	9	14	8	5	2	7	1	0	2	2	2	0	1	0	0	17	0	1
November	.04	.04	T	2.4	6.5	S.	39	NW.	1	21	7	2	1	1	1	0	0	1	1	1	1	1	0	0	30	0	0
December	.69	.39	3.8	5.2	7.2	SW.	34	NW.	3	13	7	11	9	5	10	6	0	3	1	0	0	12	0	0	27	3	0
Year	13.48	1.11	20.4	4.0	7.8	SE.	39	NW.	10	187	107	71	92	60	66	27	4	23	11	8	4	71	22	10	175	38	35

WILMINGTON, N. C.

[H=6 ft.; H_b=72 ft.; H_t=73 ft.; H_r=65 ft.; H_a=107 ft.]

January	3.23	1.36	0.0	4.3	9.9	NW.	38	NW.	2	14	9	8	13	7	0	0	0	19	0	0	0	0	0	0	5	0	3
February	5.97	1.31	.0	5.4	11.5	S.	41	S.	4	10	7	11	13	11	0	0	0	19	2	0	0	0	0	0	3	0	1
March	2.80	1.59	T	4.3	10.7	SW.	37	SW.	3	14	9	8	8	7	1	0	0	16	2	2	2	0	0	0	0	0	2
April	1.82	.65	.0	3.9	11.2	SW.	34	S.	2	17	6	7	9	5	0	0	0	12	2	1	1	0	0	0	0	0	4
May	4.64	1.82	.0	4.8	9.2	SW.	31	NW.	0	11	10	10	8	7	0	0	1	7	1	1	1	0	0	0	0	0	8
June	4.78	1.26	.0	5.4	9.0	SW.	25	S.	0	9	14	7	16	11	0	0	0	7	0	0	0	0	7	1	0	0	16
July	7.43	5.02	.0	5.3	8.8	SW.	28	S.	0	8	14	9	15	9	0	0	0	3	0	0	0	0	3	0	0	0	13
August	7.21	1.25	.0	5.9	7.6	SW.	31	SW.	0	7	15	9	18	16	0	0	0	7	1	1	0	0	2	0	0	0	15
September	2.67	1.03	.0	5.9	7.3	NE.	24	N.	0	7	13	10	9	8	0	0	0	9	4	3	2	0	3	2	0	0	9
October	3.00	1.65	.0	4.9	8.6	N.	22	SW.	0	11	9	11	4	3	0	0	0	16	3	2	1	0	0	0	0	0	1
November	.79	.45	.0	4.1	7.8	N.	22	NW.	0	17	4	9	3	3	0	0	0	15	4	2	2	0	0	0	1	0	0
December	1.56	.93	.0	4.5	8.8	NW.	30	SW.	0	14	7	10	9	8	0	0	0	7	5	3	2	0	0	0	4	0	0
Year	45.90	5.02	T	4.9	9.2	SW.	41	S.	11	139	117	109	125	95	1	0	1	137	24	15	11	0	15	3	13	0	72

WINNEMUCCA, NEV.

[H=4,287 ft.; H_b=4,344 ft.; H_t=18 ft.; H_r=6 ft.; H_a=56 ft.]

January	0.94	0.50	6.8	7.0	7.3	NE.	36	S.	1	7	5	19	9	5	12	9	0	3	2	0	0	1	0	0	31	0	0
February	.85	.24	13.4	7.3	8.8	SW.	28	NW.	0	4	6	18	12	8	16	12	0	1	0	0	0	5	0	0	28	2	0
March	1.01	.38	7.3	5.2	8.0	NE.	30	SW.	0	13	6	12	11	8	8	6	0	0	0	0	0	0	0	0	20	0	0
April	.18	.08	T	5.4	8.0	NE.	25	NE.	0	7	14	9	6	2	1	0	0	0	0	0	0	0	0	0	8	0	2
May	.82	.61	.0	4.8	7.3	SW.	30	W.	0	11	13	7	5	3	0	0	0	0	0	0	0	0	2	0	2	0	4
June	.11	.09	T	3.8	7.3	W.	31	W.	0	15	10	5	2	1	1	0	0	0	0	0	0	0	8	2	0	0	0
July	.09	.04	.0	2.9	6.9	SW.	28	S.	0	17	10	4	4	1	0	0	0	0	0	0	0	0	21	15	0	0	7
August	.04	.04	.0	2.4	6.8	SW.	28	S.	0	20	9	2	2	0	0	0	0	0	0	0	0	0	25	16	0	0	3
September	.25	.13	T	3.4	6.8	NE.	31	SW.	0	16	8	6	5	4	1	0	0	0	0	0	0	0	3	2	2	0	5
October	2.40	1.07	T	4.5	6.3	NE.	28	W.	0	14	7	10	7	4	1	0	0	0	0	0	0	0	0	0	9	0	0
November	.16	.11	T	3.6	6.3	NE.	17	S.	0	16	8	6	2	2	1	0	0	1	0	0	0	0	0	0	28	0	0
December	.94	.58	2.1	6.5	6.6	NE.	30	S.	0	7	8	16	9	6	7	4	0	3	1	0	0	1	0	0	25	0	0
Year	7.79	1.07	29.6	4.7	7.2	NE.	36	S.	1	147	104	114	74	44	48	31	0	8	3	0	0	7	59	35	153	2	21

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

WYTHEVILLE, VA.

[ϕ=36°56′ N.; λ=81°05′ W.]

Month	Pressure			Temperature (°F.)												Moisture									
		Extremes		Mean										Extremes		Mean									
				Dry bulb				Wet bulb								Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	27.62	28.01	26.99		32.1		38.4		30.2		34.0	46.0	28.3	37.2	65	10		28		28	28		83		68	75
February	27.66	28.04	27.06		34.9		43.3		32.8		38.2	51.9	29.8	40.8	71	10		30		32	31		81		64	73
March	27.66	28.05	27.03		39.7		48.3		36.3		40.9	55.5	36.1	45.8	75	22		32		32	32		74		56	65
April	27.58	28.04	27.15		44.8		53.0		40.7		44.8	61.5	38.8	50.2	82	25		36		36	36		72		55	63
May	27.65	27.87	27.32		56.3		65.4		53.0		56.9	73.5	49.8	61.6	85	32		50		51	50		80		61	71
June	27.68	27.87	27.48		67.2		73.8		64.1		66.6	82.8	61.8	72.3	88	54		63		63	63		85		70	78
July	27.67	27.83	27.46		65.5		72.6		63.1		65.8	81.3	61.1	71.2	88	50		62		62	62		88		71	80
August	27.67	27.89	27.42		64.5		72.0		62.3		65.8	80.5	60.4	70.4	86	54		61		63	62		90		74	82
September	27.72	28.04	27.50		58.7		69.8		56.0		61.7	80.6	54.3	67.4	92	43		54		57	56		85		65	75
October	27.70	28.00	27.37		48.8		58.1		45.9		50.4	69.3	44.0	56.6	84	25		43		44	43		82		60	71
November	27.80	28.10	27.50		34.4		43.1		31.6		36.6	50.7	32.4	41.6	66	23		28		28	28		77		58	68
December	27.55	27.96	27.10		31.6		37.5		29.6		33.4	45.4	28.5	37.0	66	17		27		28	27		82		69	75
Year	27.66	28.10	26.99		48.2		56.3		45.5		49.6	64.9	43.8	54.3	92	10		43		44	43		82		64	73

YAKIMA, WASH.

[ϕ=46°36′ N.; λ=120°30′ W.]

January	28.90	29.58	28.29		32.5		41.0		30.5		35.8	43.7	29.2	36.4	56	22		28		28	28		81		63	72
February	28.91	29.46	28.20		31.2		41.1		28.2		34.3	43.4	27.5	35.4	54	14		23		24	24		71		51	61
March	28.89	29.29	28.48		38.2		55.1		35.1		43.6	57.1	35.2	46.2	79	22		31		31	31		74		43	59
April	28.92	29.45	28.57		44.7		66.4		38.6		48.7	68.7	41.6	55.2	85	29		30		28	29		58		24	41
May	28.82	29.10	28.50		52.2		73.9		44.4		53.6	76.1	49.5	62.8	94	34		36		34	35		55		25	40
June	28.80	29.06	28.37		54.5		75.1		47.4		55.8	77.9	52.6	65.2	96	40		40		39	40		60		28	44
July	28.82	29.15	28.57		62.2		87.0		52.7		61.7	89.7	60.2	75.0	110	48		45		43	44		55		22	40
August	28.82	29.08	28.56		62.7		88.4		52.3		62.3	90.4	59.8	75.1	102	42		43		43	43		50		22	36
September	28.85	29.20	28.46		54.9		77.7		48.7		57.8	80.2	52.1	66.2	94	41		43		42	42		65		28	47
October	28.92	29.46	28.32		45.1		64.4		41.3		50.9	67.2	41.4	54.3	79	32		37		38	37		74		38	56
November	29.03	29.33	28.55		32.6		50.9		31.0		42.9	53.7	28.9	41.3	63	24		29		33	31		84		52	68
December	28.92	29.23	28.29		34.7		42.6		33.1		38.2	45.3	31.4	38.4	58	18		31		32	32		86		68	77
Year	28.88	29.58	28.20		45.5		63.6		40.3		48.8	66.1	42.4	54.3	110	14		35		35	35		68		39	53

YELLOWSTONE PARK, WYO.

[ϕ=44°58′ N.; λ=110°42′ W.]

January	23.81	24.26	23.37		19.2	23.8	23.4		17.6	21.1	20.6	29.0	13.7	21.4	39	2		14	16	15	15		80	70	68	73
February	23.73	24.16	23.28		8.9	15.3	16.2		7.5	13.0	13.4	21.9	3.3	12.6	36	−26		3	7	6	5		74	67	62	68
March	23.84	24.21	23.41		22.6	32.5	35.5		20.7	28.0	29.8	40.1	18.8	29.4	60	−7		18	22	23	21		79	65	60	68
April	23.89	24.30	23.62		31.7	46.0	48.7		28.4	36.8	37.7	52.6	29.0	40.8	75	5		24	26	25	25		72	49	44	55
May	23.88	24.14	23.61		38.3	57.5	58.2		34.7	44.3	44.6	63.0	36.5	49.8	77	26		31	32	32	32		74	40	39	51
June	23.87	24.17	23.46		40.7	58.0	58.4		37.7	45.9	46.2	62.9	38.5	50.7	80	32		35	36	36	35		80	46	46	57
July	24.00	24.22	23.73		50.4	72.3	74.5		44.9	54.2	53.9	78.5	48.7	63.6	90	37		40	42	39	40		69	35	31	45
August	24.02	24.21	23.79		46.7	68.6	73.3		40.9	51.5	51.9	77.2	44.3	60.8	85	31		35	39	35	36		66	35	27	43
September	23.97	24.38	23.63		42.4	59.5	63.0		37.5	46.3	47.2	67.3	39.1	53.2	80	25		32	35	33	33		68	42	36	49
October	23.93	24.28	23.50		35.7	46.9	47.5		32.2	38.8	38.5	53.4	32.0	42.7	64	21		28	31	28	29		74	55	50	60
November	24.05	24.21	23.63		27.0	40.3	39.5		23.3	31.8	30.6	48.6	23.3	36.0	58	15		17	20	18	18		64	44	40	49
December	23.92	24.25	23.54		26.5	31.7	30.6		23.3	27.1	26.3	36.6	21.3	29.0	58	−7		19	21	20	20		72	63	66	67
Year	23.91	24.38	23.28		32.5	46.0	47.4		29.1	36.6	36.7	52.6	29.0	40.8	90	−26		25	27	26	26		73	51	47	57

YUMA, ARIZ.

[ϕ=32°45′ N.; λ=114°36′ W.]

January	29.89	30.22	29.59	51.3	47.2	60.0	64.2	44.6	42.1	48.3	49.7	66.3	44.2	55.2	73	38	36	35	35	33	35	59	66	41	35	50
February	29.91	30.27	29.56	49.7	44.8	58.2	62.8	41.3	38.2	45.0	46.6	64.7	41.8	53.2	78	32	30	28	27	25	28	49	56	32	26	41
March	29.82	30.17	29.58	60.4	53.8	72.0	77.7	48.5	45.5	53.3	55.1	80.0	51.0	65.5	94	38	35	35	34	32	34	41	54	26	20	37
April	29.73	30.07	29.52	68.5	59.3	82.3	88.4	53.6	51.4	58.5	60.0	90.7	56.9	73.8	102	46	39	44	37	34	38	36	59	22	16	33
May	29.64	29.80	29.43	74.6	64.6	87.6	94.1	57.1	54.7	62.0	63.1	96.0	62.0	79.0	107	57	42	45	42	38	42	32	53	21	14	30
June	29.60	29.79	29.45	80.1	69.6	94.4	101.0	61.9	58.7	64.9	67.0	103.1	67.1	85.1	113	58	48	50	43	42	46	36	53	18	14	30
July	29.63	29.82	29.46	87.2	78.9	98.0	104.9	69.6	68.1	72.9	73.0	107.4	76.1	91.8	119	65	60	62	59	55	59	41	58	29	21	37
August	29.63	29.82	29.46	86.8	81.1	98.2	102.6	73.5	73.0	76.4	77.0	106.5	78.7	92.6	111	74	67	69	67	66	67	53	68	37	32	48
September	29.68	29.81	29.48	78.3	74.6	88.7	91.5	68.7	67.3	71.4	71.3	95.2	71.2	83.2	112	60	64	63	62	61	62	63	70	46	40	55
October	29.77	30.06	29.51	67.6	63.4	81.6	83.9	54.5	52.3	60.0	61.0	88.0	60.5	74.2	96	51	43	42	42	43	42	43	49	26	25	36
November	29.86	30.06	29.68	60.9	57.1	73.7	73.3	52.5	50.0	57.1	58.0	78.6	54.4	66.5	89	45	44	42	43	45	44	58	62	36	40	39
December	29.89	30.14	29.61	55.0	51.4	67.6	69.8	46.3	44.1	51.9	53.4	73.6	48.3	61.0	82	36	36	35	36	37	36	51	56	32	31	42
Year	29.75	30.27	29.43	68.4	62.2	80.2	84.5	56.0	53.8	60.1	61.3	87.5	59.4	73.4	119	32	45	46	44	43	44	47	59	30	26	40

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

WYTHEVILLE, VA.

[H=2,299 ft.; H_b=2,304 ft.; H_t=49 ft.; H_r=40 ft.; H_a=55 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																				
January	2.67	0.70	6.2	6.0	8.8	W.	29	W.	0	9	10	12	14	11	12	8	0	2	0	0	0	3	0	0	23	0	0
February	3.68	.92	1.2	5.9	8.1	W.	37	W.	1	9	8	11	14	10	4	1	0	3	0	0	1	2	0	0	20	0	0
March	2.43	.80	1.3	5.6	8.3	W.	27	W.	0	10	8	13	13	10	2	1	0	3	0	1	1	0	0	0	10	0	1
April	1.30	.32	T	5.0	8.5	W.	26	W.	0	10	10	10	12	8	1	0	1	1	0	0	0	0	0	0	7	0	3
May	1.63	.67	.0	5.9	5.4	W.	28	W.	0	8	12	11	9	6	0	0	1	4	0	1	2	0	0	0	1	0	8
June	4.50	1.39	.0	5.7	5.4	W.	28	W.	0	5	16	9	16	12	0	0	0	6	1	1	0	0	0	0	0	0	15
July	5.57	2.03	.0	6.4	5.1	W.	21	NW.	0	5	13	13	16	13	0	0	0	2	0	0	2	0	0	0	0	0	12
August	3.11	1.22	.0	5.9	4.6	W.	16	W.	0	6	14	11	12	9	0	0	0	2	1	0	3	0	0	0	0	0	8
September	.68	1.20	.0	3.2	5.2	W.	18	W.	0	18	9	3	4	2	0	0	0	5	0	1	1	0	2	0	0	0	3
October	1.00	.11	.0	4.2	6.1	W.	24	NW.	0	15	9	7	8	5	0	0	0	0	0	0	2	0	0	0	4	0	1
November	.71	.30	2.2	5.6	6.2	W.	20	W.	0	11	5	14	7	7	5	5	0	2	2	0	0	0	0	0	17	0	0
December	2.09	.71	12.2	6.3	8.8	W.	34	W.	1	8	7	16	11	8	10	7	0	1	0	0	0	1	0	0	23	0	0
Year	29.37	2.03	23.1	5.5	6.7	W.	37	W.	2	114	121	130	136	101	34	22	2	31	4	4	12	6	2	0	105	0	51

YAKIMA, WASH.

[H=1,068 ft.; H_b=1,076 ft.; H_t=58 ft.; H_r=52 ft.; H_a=67 ft.]

January	0.39	0.19	1.9	7.9	4.7	NW.	22	W.	0	3	7	21	6	4	8	2	0	12	9	0	4	1	0	0	23	0	0
February	1.00	.28	7.1	7.3	5.4	NW.	31	NW.	0	5	7	16	9	8	11	8	0	0	0	0	0	3	0	0	22	0	0
March	.32	.11	.2	6.5	5.3	NW.	23	W.	0	8	5	18	9	2	4	4	0	0	0	0	0	0	0	0	14	0	0
April	.25	.25	.0	5.8	6.7	NW.	25	SW.	0	7	13	10	1	1	0	0	0	0	0	0	0	0	0	0	2	0	0
May	.32	.29	.0	4.9	7.3	NW.	24	W.	0	12	9	10	3	1	0	0	0	0	0	0	0	0	2	0	0	0	1
June	.08	.03	.0	5.3	7.3	NW.	22	NW.	0	8	15	7	4	0	0	0	0	0	0	0	0	0	2	1	0	0	1
July	.11	.11	.0	2.1	7.3	NW.	20	NW.	0	24	3	4	1	1	0	0	0	0	0	0	0	0	15	12	0	0	1
August	.18	.23	.0	2.6	6.5	NW.	22	SW.	0	22	5	4	1	1	0	0	0	0	0	0	0	0	21	8	0	0	1
September	.05	T	.0	3.1	5.8	NW.	20	NW.	0	17	10	3	1	1	0	0	0	0	0	0	0	0	4	0	0	0	0
October	.06	.02	.0	5.5	4.9	NW.	23	NW.	0	11	8	12	4	0	0	0	0	0	0	0	0	0	0	0	1	0	0
November	.01	.01	.0	6.5	3.5	SE.	28	W.	0	7	8	15	1	0	0	0	0	0	0	0	0	0	0	0	26	0	0
December	1.44	.38	3.1	8.0	4.1	NW.	29	SE.	0	4	3	24	13	10	5	3	0	7	5	4	1	0	0	0	16	0	0
Year	4.21	.38	12.3	5.5	5.7	NW.	31	NW.	0	128	93	144	53	29	28	17	0	19	14	4	5	4	44	21	104	0	4

YELLOWSTONE PARK, WYO.

[H=6,235 ft.; H_b=6,241 ft.; H_t=12 ft.; H_r=3 ft.; H_a=46 ft.]

January	1.21	0.25	19.2	6.8	8.8	SW.	30	SW.	0	8	5	18	16	11	23	16	0	0	0	0	0	25	0	0	31	0	0
February	.94	.23	14.4	7.0	8.9	SW.	32	SW.	1	2	12	14	14	9	24	14	0	0	0	0	0	24	0	0	28	10	0
March	1.37	.45	19.3	6.0	8.2	SW.	31	SW.	0	9	5	17	17	9	18	17	0	0	0	0	0	9	0	0	30	2	0
April	.88	.23	2.6	6.0	8.3	SW.	23	SW.	0	7	8	15	9	7	10	4	0	1	1	0	0	1	0	0	18	0	1
May	.58	.17	T	5.5	8.0	SW.	31	SW.	0	8	14	9	8	5	3	0	1	1	0	0	0	0	0	0	7	0	4
June	1.53	.41	T	6.6	8.4	SW.	31	SW.	0	3	15	12	13	10	2	1	1	0	0	0	0	0	0	0	1	0	5
July	.86	.23	.0	4.5	7.7	SW.	30	SW.	0	14	9	8	10	7	0	0	0	0	0	0	0	0	0	0	0	0	8
August	.91	.33	.0	4.5	7.2	SW.	33	SW.	1	11	13	7	6	5	0	0	0	0	0	0	0	0	0	0	1	0	6
September	.36	.11	.0	3.9	8.5	SW.	30	SW.	0	12	17	1	8	3	0	0	0	0	0	0	0	0	0	0	3	0	6
October	1.05	.42	3.4	5.7	8.2	SW.	28	SW.	0	10	11	10	8	4	5	3	0	0	0	0	0	1	0	0	12	0	1
November	T	T	T	3.8	7.1	SW.	28	SW.	0	15	8	7	0	0	3	0	0	0	0	0	0	0	0	0	29	0	0
December	.94	.25	13.9	7.3	8.5	S.	31	W.	0	3	9	19	16	9	16	12	0	0	0	0	0	9	0	0	26	2	0
Year	10.63	.45	72.8	5.6	8.2	SW.	33	SW.	1	102	126	137	125	79	104	67	2	2	1	0	0	69	0	0	186	14	31

YUMA, ARIZ.

[H=138 ft.; H_b=142 ft.; H_t=9 ft.; H_r=2 ft.; H_a=54 ft.]

January	0.91	0.41	0.0	3.0	6.5	N.	24	NW.	0	18	9	4	4	3	0	0	0	3	0	0	0	0	0	0	0	0	0
February	.19	.12	.0	1.8	7.6	N.	29	N.	0	22	4	2	3	2	0	0	1	0	0	0	0	0	0	0	1	0	0
March	.01	.01	.0	1.9	5.8	W.	26	W.	0	25	4	2	1	0	0	0	0	0	0	0	0	0	6	0	0	0	0
April	T	T	.0	1.2	6.1	W	34	W.	2	27	3	0	0	0	0	0	0	0	0	0	0	17	10	0	0	0	0
May	.00	.00	.0	.6	6.3	W.	26	NW.	0	29	1	1	0	0	0	0	0	0	0	0	0	26	19	0	0	0	0
June	.00	.00	.0	.2	5.8	W.	22	W.	0	30	0	0	0	0	0	0	0	0	0	0	0	30	27	0	0	0	0
July	.11	.08	.0	.9	5.9	SW.	30	NW.	0	28	3	0	3	1	0	0	0	0	0	0	0	31	31	0	0	0	6
August	.12	.12	.0	1.6	5.6	S.	22	SE.	0	25	4	2	1	1	0	0	0	0	0	0	0	31	30	0	0	0	1
September	5.13	3.69	.0	3.2	5.3	N.	20	SE.	0	18	6	6	6	6	0	0	0	0	0	0	0	23	15	0	0	0	4
October	T	T	.0	.4	6.6	N.	21	W.	0	31	0	0	0	0	0	0	0	0	0	0	0	16	2	0	0	0	0
November	.19	.16	.0	2.8	5.0	N.	18	N.	0	21	4	5	3	1	0	0	0	0	0	0	0	0	0	0	0	0	1
December	.00	.00	.0	.8	5.5	N.	23	NW.	0	28	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Year	6.66	3.69	.0	1.5	6.0	N.	34	W.	2	302	41	22	21	14	0	0	1	3	0	0	0	0	180	134	1	0	12

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BARROW, ALASKA

[ϕ=71°23′ N.; λ=156°17′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
	(1)				(2)		(2)																			
January	29.98	30.47	29.31		−18.4		−19.6					−15.0	−23.9	−19.4	2	−39										
February	30.17	30.82	29.62		−20.7		−18.7					−14.8	−23.7	−19.3	6	−40										
March	30.16	30.92	28.99		−17.6		−13.3					−8.6	−22.0	−15.3	17	−40										
April	29.86	30.63	29.16		10.4		11.6					14.6	7.3	11.0	29	−18										
May	30.00	30.41	29.51		14.6		20.2					23.2	12.5	17.8	32	−7										
June	30.06	30.45	29.72		29.9		36.5					39.6	27.4	33.5	55	10										
July	29.88	30.11	29.72		34.7		38.5					41.1	33.6	37.4	56	29										
August	29.85	30.09	29.57		35.5		39.6					42.8	34.0	38.4	67	29										
September	29.81	30.24	29.25		31.9		33.4					36.5	29.7	33.1	42	21										
October	29.93	30.48	29.17		18.8		19.9					23.9	15.4	19.6	33	−4										
November	29.95	30.52	29.48		−9.0		−8.8					−2.9	−13.1	−8.0	11	−38										
December	29.76	30.21	29.35		−1.5		0.6					3.6	−4.5	0.4	19	−18										
Year	29.95	30.92	28.99		9.0		11.7					15.3	6.1	10.8	67	−40										

DUTCH HARBOR, ALASKA

[ϕ=53°53′ N.; λ=166°32′ W.]

	(1)				(3)		(3)																			
January	29.40	30.14	28.64		29.5		30.6					33.4	25.5	29.4	43	13										
February	29.41	30.26	28.28		35.6		37.9					40.1	31.3	35.7	45	22										
March	29.90	30.80	28.44		31.2		33.3					35.7	26.8	31.2	45	12										
April	29.85	30.80	28.52		35.4		38.4					43.6	29.6	36.6	59	14										
May	29.92	30.44	29.36		37.8		42.6					45.3	34.1	39.7	56	25										
June	29.91	30.36	29.24		42.6		49.1					51.4	39.0	45.2	64	32										
July	29.83	30.24	29.34		48.7		53.5					57.4	45.5	51.4	69	42										
August	29.71	30.18	29.04		48.0		53.7					57.0	44.7	50.8	75	36										
September	29.79	30.40	28.98		48.0		53.0					54.4	45.0	49.7	80	37										
October	29.82	30.52	28.34		39.7		42.8					44.9	36.0	40.4	58	29										
November	29.56	30.06	28.88		32.8		35.6					37.5	29.1	33.3	49	20										
December	29.28	29.78	28.56		27.5		27.6					30.0	23.0	26.5	38	13										
Year	29.70	30.80	28.28		38.1		41.5					44.2	34.1	39.2	80	12										

FAIRBANKS, ALASKA

[ϕ=64°51′ N.; λ=147°39′ W.]

	(1)				(4)		(4)										(4)		(4)			(4)				(4)
January	29.18	29.83	28.49		−11.2		−6.7		−11.5		−7.0	−2.5	−18.7	−10.6	18	−44		−14		−9	−12		88		87	87
February	29.44	30.37	28.66		−5.2		5.6		−5.7		4.3	8.1	−13.9	−2.9	39	−51		−8		0	−4		85		76	80
March	29.46	30.30	28.61		0.8		14.7		−0.4		11.7	17.2	−8.2	4.5	55	−31		−6		1	−2		70		52	61
April	29.35	30.39	28.52		24.8	31.8	41.3		22.3	27.2	33.4	43.6	20.4	32.0	54	−25		17	20	31	24		73	60	42	58
May	29.32	29.76	28.86		38.7	48.0	54.9		36.2	40.7	45.2	58.1	36.1	47.1	71	20		32	32	32	32		78	53	44	61
June	29.40	29.84	29.06		49.3	60.7	67.1		47.5	53.0	55.1	71.0	47.3	59.2	80	40		46	46	45	46		88	62	48	68
July	29.33	29.73	28.94		50.8	60.7	68.6		49.4	54.4	56.8	72.2	48.6	60.4	86	41		48	50	48	48		91	68	50	70
August	29.26	29.62	28.90		46.1	52.9	62.0		44.4	48.6	52.7	65.0	42.2	53.6	76	32		43	45	45	44		89	76	55	72
September	29.32	29.91	28.85		37.0	38.9	48.8		35.6	37.1	42.9	50.9	33.1	42.0	60	12		34	35	36	35		87	85	62	74
October	29.28	30.06	28.45		18.4	17.8	26.5		17.0	16.8	23.9	28.5	12.6	20.6	49	−5		14	14	18	16		81	85	69	75
November	29.20	29.85	28.71		−6.2	−7.7	−0.8		−6.8	−8.2	−1.4	3.0	−13.4	−5.2	23	−36		−11	−12	−5	−8		78	80	79	79
December	28.92	29.49	28.53		−0.3	0.2	1.7		−1.1	−0.8	0.7	8.5	−8.5	0.0	42	−28		−5	−5	−3	−4		80	79	80	80
Year	29.29	30.39	28.45		20.2		32.0		18.9		26.5	35.3	14.8	25.0	86	−51		16		20	18		82		62	72

JUNEAU, ALASKA

[ϕ=58°18′ N.; λ=134°24′ W.]

	(1)																									
January	29.57	30.12	28.66	33.8	33.6	33.5	34.1	32.1	31.8	31.8	32.1	36.5	30.7	33.6	43	14	29	28	28	29	29	83	82	82	80	82
February	29.90	30.35	28.91	26.0	26.1	26.1	27.4	24.6	24.6	24.7	25.5	29.5	23.5	26.5	41	3	20	20	20	20	20	79	78	79	75	78
March	29.83	30.42	28.82	31.8	30.7	32.1	34.0	29.7	28.9	29.1	30.6	35.7	28.0	31.8	44	16	26	25	23	24	24	77	79	68	66	73
April	29.89	30.63	28.86	37.2	35.9	38.8	41.4	34.4	33.6	35.3	36.6	42.9	33.4	38.2	52	20	30	30	30	29	29	75	78	70	63	71
May	29.84	30.24	29.03	45.2	42.1	47.2	50.6	42.3	40.4	43.0	44.3	52.5	40.4	46.4	64	32	39	38	38	37	38	80	87	72	62	75
June	29.91	30.27	29.49	53.8	48.3	56.0	60.0	48.6	46.2	49.7	51.0	62.0	47.3	54.6	77	39	43	44	44	42	43	71	86	66	58	70
July	29.91	30.25	29.49	56.1	52.4	56.2	60.8	52.3	50.3	52.1	53.9	62.0	50.8	56.4	77	46	49	48	48	48	49	79	87	77	67	78
August	29.93	30.32	29.57	52.7	51.1	53.2	56.6	50.5	49.1	50.5	51.9	58.2	49.0	53.6	73	44	48	47	48	48	48	86	88	83	75	83
September	29.84	30.33	29.15	49.5	47.8	49.1	51.4	47.4	46.1	46.7	47.9	53.3	45.8	49.6	62	39	45	44	44	44	44	86	88	84	78	84
October	29.72	30.27	28.61	41.1	40.4	41.5	42.7	38.6	37.9	38.5	38.9	45.3	37.1	41.2	53	29	35	34	34	33	34	80	79	76	72	76
November	29.55	30.04	29.03	38.7	37.8	38.1	39.3	36.2	35.9	35.9	36.3	42.6	34.0	38.3	55	27	33	33	33	32	32	79	84	81	75	80
December	29.43	30.13	28.63	40.2	39.5	40.3	41.0	37.3	37.2	37.1	37.3	43.7	36.1	39.9	50	32	33	34	32	32	33	78	82	75	72	77
Year	29.78	30.63	28.61	42.2	40.5	42.7	44.9	39.5	38.5	39.5	41.1	47.0	38.0	42.5	77	3	36	35	35	35	35	79	83	76	70	77

[1] No diurnal correction applied.
[2] 2 a. m. and 2 p. m. 150th meridian time.
[3] 12 a. m. and 12 p. m. 165th meridian time.
[4] 2 a. m. and 2 p. m. 150th meridian time.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

BARROW, ALASKA

H=22 ft.; H_b=13 ft.; H_t=4 ft.; H_r=2 ft.; H_a=27 ft.]

Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																	
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*			*Mi.*																			
January	0.00	0.00	0.0	5.3	7.7	NE.	31	NE.	0	14	2	15	0	0	0	0	0	0	----	----	0	31	0	0	31	31	0
February	.28	.14	4.0	2.5	9.3	NE.	29	NE.	0	21	0	7	3	3	3	3	0	9	----	----	21	28	0	0	28	28	0
March	T	T	T	3.1	12.9	NE.	36	SW.	2	20	2	9	0	0	2	0	0	0	----	----	0	31	0	0	31	29	0
April	T	T	T	7.4	10.6	NE.	34	SE.	0	8	7	15	0	0	3	0	0	1	----	----	6	30	0	0	30	3	0
May	T	T	T	7.5	11.1	SW.	26	NE.	0	5	6	20	0	0	2	0	0	3	----	----	3	31	0	0	31	2	0
June	.25	.11	.0	3.8	11.5	NE.	29	NE.	0	18	4	8	3	3	T	0	0	2	----	----	9	5	0	0	25	0	0
July	.83	.22	T	6.8	14.9	E.	40	E.	3	3	12	16	7	4	2	0	0	10	----	----	12	0	0	0	8	0	0
August	.41	.11	.7	7.5	16.9	NE.	39	E	5	6	3	22	7	5	1	1	0	9	----	----	13	0	0	0	8	0	0
September	.66	.18	1.5	8.0	18.2	E.	42	SW.	6	3	6	21	10	6	5	3	0	4	----	----	4	2	0	0	25	0	0
October	.36	.10	6.2	8.6	15.6	NE.	36	SW.	1	1	5	25	6	3	6	6	0	2	----	----	1	30	0	0	31	1	0
November	.03	.03	.5	2.6	10.0	NE.	30	SW.	0	22	2	6	1	0	1	1	0	1	----	----	4	30	0	0	30	28	0
December	.23	.15	3.6	7.7	17.0	NE.	43	NE.	6	6	3	22	3	2	4	3	0	0	----	----	3	30	0	0	30	28	0
Year	3.05	.22	16.5	5.9	13.0	NE.	43	NE.	23	127	52	186	40	26	29	17	0	41	----	----	76	248	0	0	308	150	0

DUTCH HARBOR, ALASKA

[H=40 ft.; H_b=13 ft.; H_t=4 ft.; H_r=3 ft.; H_a= ft.]

					(1)																						
January	6.91	1.58	27.2	8.2	----	N.	----	----	----	2	7	22	21	15	14	10	0	6	----	----	0	11	0	0	26	0	0
February	11.81	2.30	.0	8.4	----	SW.	----	----	----	0	6	22	25	23	0	0	0	2	----	----	0	0	0	0	14	0	0
March	2.69	1.25	.3	8.1	----	NW.	----	----	----	1	7	23	12	7	6	2	0	2	----	----	0	9	0	0	27	0	0
April	1.94	.51	T	8.5	----	S.	----	----	----	2	5	23	19	10	6	0	0	0	----	----	0	0	0	0	20	0	0
May	1.25	.33	T	8.2	----	NW.	----	----	----	2	6	23	20	9	1	0	0	0	----	----	0	0	0	0	13	0	0
June	2.81	1.17	.0	7.5	----	SE.	----	----	----	2	7	21	15	9	0	0	0	3	----	----	0	0	0	0	1	0	0
July	1.75	.51	.0	7.8	----	SE.	----	----	----	3	8	20	17	7	0	0	0	0	----	----	0	0	0	0	0	0	0
August	4.10	.82	.0	8.6	----	SW.	----	----	----	0	7	24	21	19	0	0	0	1	----	----	0	0	0	0	0	0	0
September	7.27	2.41	.0	8.0	----	S.	----	----	----	2	6	22	18	14	0	0	0	0	----	----	0	0	0	0	0	0	0
October	6.84	2.09	1.5	7.9	----	NW.	----	----	----	2	7	22	23	18	14	1	0	0	----	----	0	0	0	0	6	0	0
November	4.49	1.04	.0	7.7	----	NW.	----	----	----	2	11	17	23	17	0	0	0	0	----	----	0	9	0	0	23	0	0
December	6.62	1.44	.0	8.8	----	NW.	----	----	----	0	4	27	29	26	0	0	0	0	----	----	0	22	0	0	30	0	0
Year	58.48	2.41	29.0	8.1	----	NW.	----	----	----	18	81	266	243	174	41	13	0	14	----	----	0	51	0	0	160	0	0

FAIRBANKS, ALASKA

[H=440 ft.; H_b=454 ft.; H_t=11 ft.; H_r=61 ft.; H_a=87 ft].

January	0.68	0.14	13.1	7.3	3.1	S.	21	S.	0	5	9	17	12	8	18	12	0	19	1	1	1	31	0	0	31	29	0
February	.27	.18	4.9	5.6	4.0	W.	15	N.	0	9	7	12	4	2	9	4	0	7	6	4	4	25	0	0	28	18	0
March	.48	.25	6.8	6.4	6.5	N.	27	S.	0	9	6	16	7	3	11	7	0	1	0	0	0	27	0	0	30	25	0
April	T	T	T	6.2	6.5	NE.	21	NE.	0	7	9	14	0	0	7	0	0	0	0	0	0	4	0	0	27	4	0
May	.89	.42	.4	7.5	6.5	S.	30	NE.	0	1	14	16	10	6	4	2	0	2	1	1	1	0	0	0	11	0	2
June	2.18	.79	.0	6.5	6.4	S.	27	NE.	0	2	17	11	14	9	0	0	3	2	1	0	0	0	0	0	0	0	13
July	2.18	1.45	.0	6.8	5.4	S.	24	W.	0	6	7	18	11	6	0	0	1	7	1	0	0	0	0	0	0	0	3
August	1.44	.32	.0	8.6	6.4	E.	22	SE.	0	0	3	28	12	8	0	0	0	3	0	0	.0	0	0	0	0	0	2
September	1.16	.24	T	7.8	6.1	E.	22	NW.	0	3	9	18	14	11	5	0	0	6	2	2	2	0	0	0	11	0	0
October	.79	.28	12.8	7.6	5.8	E.	26	NE.	0	5	6	20	16	10	19	15	0	3	2	2	1	23	0	0	29	5	0
November	.63	.17	11.7	7.1	3.9	N.	18	NE.	0	6	6	18	11	3	15	11	0	3	1	0	0	30	0	0	30	26	0
December	.05	.03	1.5	6.7	4.1	N.	24	NE.	0	8	8	15	2	0	8	2	0	2	0	0	0	27	0	0	31	24	0
Year	10.75	1.45	51.2	7.0	5.4	N.	30	NE.	0	61	101	203	113	66	96	53	4	55	15	10	9	167	0	0	228	131	20

JUNEAU, ALASKA

[H=72 ft.; H_b=80 ft.; H_t=96 ft.; H_r=88 ft.; H_a=116 ft.]

January	10.17	1.66	17.8	9.5	8.2	S.	24	S.	0	1	0	30	23	23	18	11	0	0	0	0	0	5	0	0	19	0	0
February	8.42	3.46	19.1	8.6	8.3	S.	31	N.	0	4	0	24	23	16	21	16	0	1	0	0	0	13	0	0	14	0	0
March	9.09	3.29	29.7	8.2	8.4	S.	28	E.	0	4	2	25	22	19	22	19	0	2	0	0	0	7	0	0	22	0	0
April	4.80	1.03	1.2	8.8	8.2	S.	32	N.	1	1	3	26	24	21	9	4	0	1	0	0	0	3	0	0	6	0	0
May	5.63	1.01	1.6	8.9	7.1	S.	26	SE.	0	0	4	27	29	19	2	2	0	2	0	0	0	0	0	0	0	0	0
June	4.65	1.42	.0	7.4	6.1	W.	19	SE.	0	8	2	20	16	13	0	0	0	1	0	0	0	0	0	0	0	0	0
July	8.44	2.30	.0	8.4	7.3	SE.	22	SE.	0	3	5	23	22	16	0	0	0	2	1	0	0	0	0	0	0	0	0
August	12.24	3.08	.0	9.6	7.0	S.	24	SE.	0	0	2	29	24	21	0	0	0	4	2	0	1	0	0	0	0	0	1
September	14.09	1.79	.0	9.4	7.4	S	33	NE.	1	2	0	28	25	23	0	0	0	9	1	1	2	0	0	0	0	0	0
October	19.11	2.17	4.0	8.4	8.1	SE.	30	E.	0	4	1	26	26	24	3	1	0	1	0	0	0	0	0	0	4	0	0
November	13.14	1.87	5.1	9.2	8.3	SE.	30	E.	0	1	2	27	25	23	14	10	0	2	0	3	3	0	0	0	11	0	0
December	9.70	2.24	2.4	9.9	9.7	SE.	35	SE.	2	0	0	31	27	25	10	3	0	3	0	1	1	0	0	0	1	0	0
Year	119.48	3.46	79.9	8.9	7.8	SE.	35	SE.	4	28	21	316	286	243	99	66	0	28	4	5	7	28	0	0	77	0	1

[1] Eye observations.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KODIAK, ALASKA

[ϕ=57°48′ N.; λ=152°24′ W.]

Month	Pressure			Temperature (°F.)													Moisture									
		Extremes		Mean											Extremes		Mean									
				Dry bulb				Wet bulb									Dew point					Relative humidity				
	Monthly means	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly	1:30 a. m.	7:30 a. m.	1:30 p. m.	7:30 p. m.	Monthly
	In. (1)	*In.*	*In.*	°	° (2)	°	° (2)	°	°	°	°	°	°	°	°	°	°	°	°	°	°	%	%	%	%	%
January	29.26	29.85	28.50		27.4		31.2					34.1	24.0	29.0	41	7										
February	29.54	30.23	28.69		33.0		35.6					37.8	30.2	34.0	46	20										
March	29.53	30.33	28.81		28.8		31.6					35.7	25.2	30.4	46	6										
April	29.59	30.42	28.64		32.8		39.1					42.4	30.4	36.4	48	16										
May	29.66	30.13	29.11		38.2		45.5					48.9	36.6	42.8	56	32										
June	29.81	30.24	29.52		45.2		53.2					55.8	42.8	49.3	69	35										
July	29.70	30.10	29.00		48.9		56.1					59.7	46.5	53.1	70	42										
August	29.61	30.12	29.02		48.4		55.8					60.1	45.9	53.0	67	41										
September	29.59	30.06	28.72		46.5		54.0					57.1	44.1	50.6	63	39										
October	29.46	30.25	28.32		38.1		42.4					46.0	34.6	40.3	60	25										
November	29.17	29.67	28.62		30.8		34.0					36.7	27.5	32.1	44	11										
December	29.09	29.75	28.35		33.1		34.3					36.2	28.8	32.5	43	20										
Year	29.50	30.42	28.32		37.6		42.7					45.9	34.7	40.3	70	6										

NOME, ALASKA

[ϕ=64°30′ N.; λ=165°24′ W.]

	(1)				(3)		(3)		(3)		(3)							(3)		(3)			(3)		(3)	
January	29.74	30.29	29.05		−4.2		−1.3		−5.0		−2.3	3.2	−10.5	−3.6	25	−27		−13		−10	−12		65		65	65
February	29.74	30.58	28.93		13.3		15.4		12.7		14.3	19.9	6.2	13.0	33	−20		10		11	10		86		80	83
March	30.03	30.61	28.51		2.2		10.8		1.3		9.3	15.0	−8.4	3.3	34	−23		−5		3	−1		72		68	70
April	29.69	30.55	28.71		23.2		27.8		22.7		26.4	29.6	18.6	24.1	39	−1		22		24	23		92		83	87
May	29.91	30.19	29.58		27.8		35.3		26.8		32.3	37.5	24.0	30.8	52	8		25		28	26		88		75	81
June	29.94	30.41	29.58		42.8		50.6		40.5		45.6	54.8	39.2	47.0	75	27		38		40	39		83		70	76
July	29.76	30.12	29.43		49.8		55.7		47.7		51.0	58.1	45.9	52.0	72	36		46		47	46		87		74	81
August	29.67	30.15	29.13		47.7		53.6		45.9		49.9	55.7	44.2	50.0	66	30		44		46	45		87		78	82
September	29.80	30.31	29.16		40.6		46.6		39.0		42.9	48.7	36.6	42.6	58	23		37		39	38		87		74	80
October	29.85	30.52	29.25		26.2		32.4		24.6		29.1	34.7	21.3	28.0	45	7		21		23	22		78		66	72
November	29.76	30.35	29.32		9.7		15.3		8.3		13.3	17.3	3.9	10.6	31	−13		2		7	4		70		66	68
December	29.45	30.07	28.72		1.8		3.7		1.1		2.9	8.9	−4.9	2.0	31	−18		−3		−1	−2		76		77	77
Year	29.78	30.61	28.51		23.4		28.8		22.1		26.2	32.0	18.0	25.0	75	−27		19		21	20		81		73	77

[1] No diurnal correction applied. [2] 2 a. m. and 2 p. m. 150th meridian time. [3] 1 a. m. and 1 p. m. 165th meridian time.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1939*—Continued

KODIAK, ALASKA

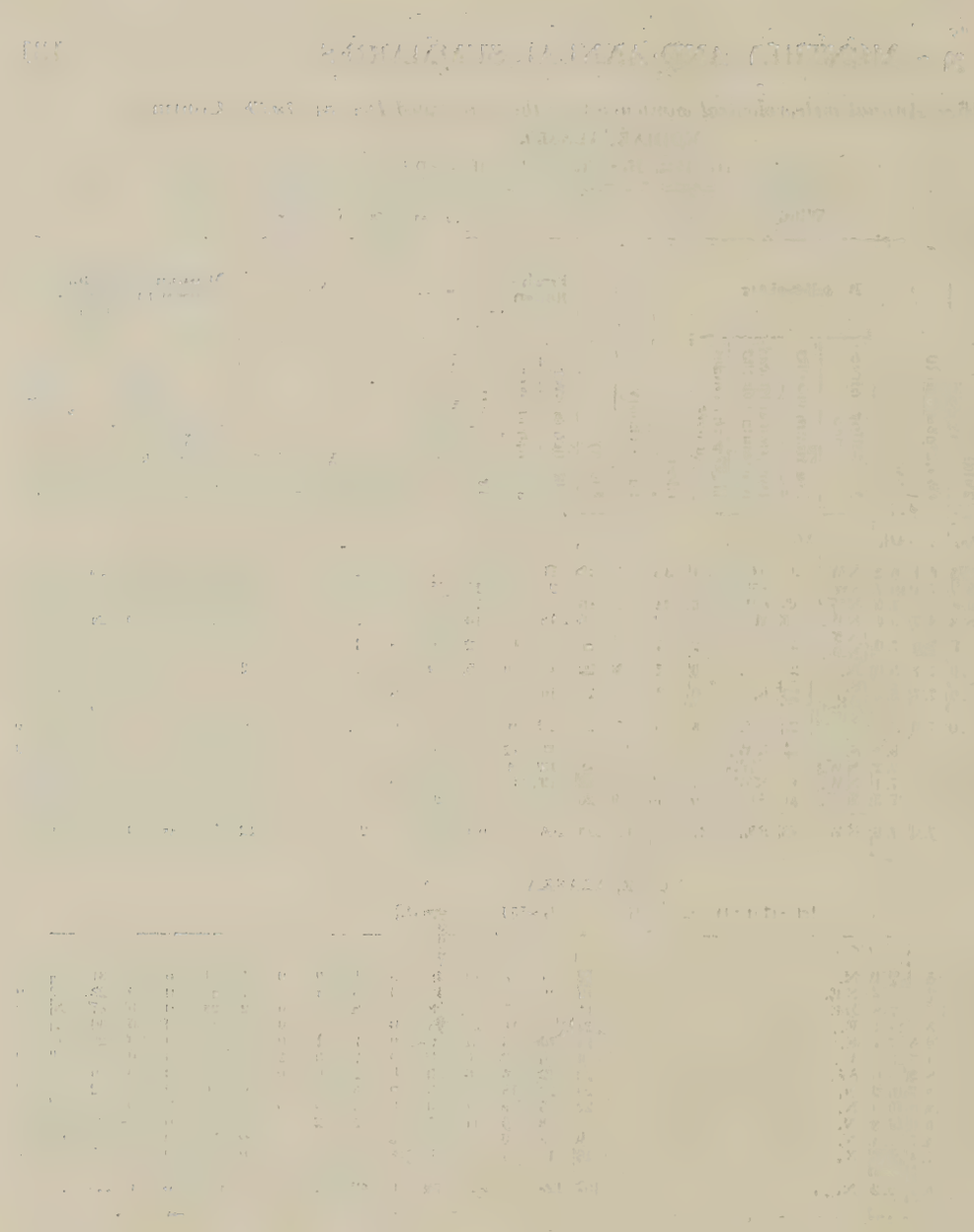
[H=147 ft.; H_b=15 ft.; H_t=5 ft.; H_r=4 ft.; H_a=— ft.]

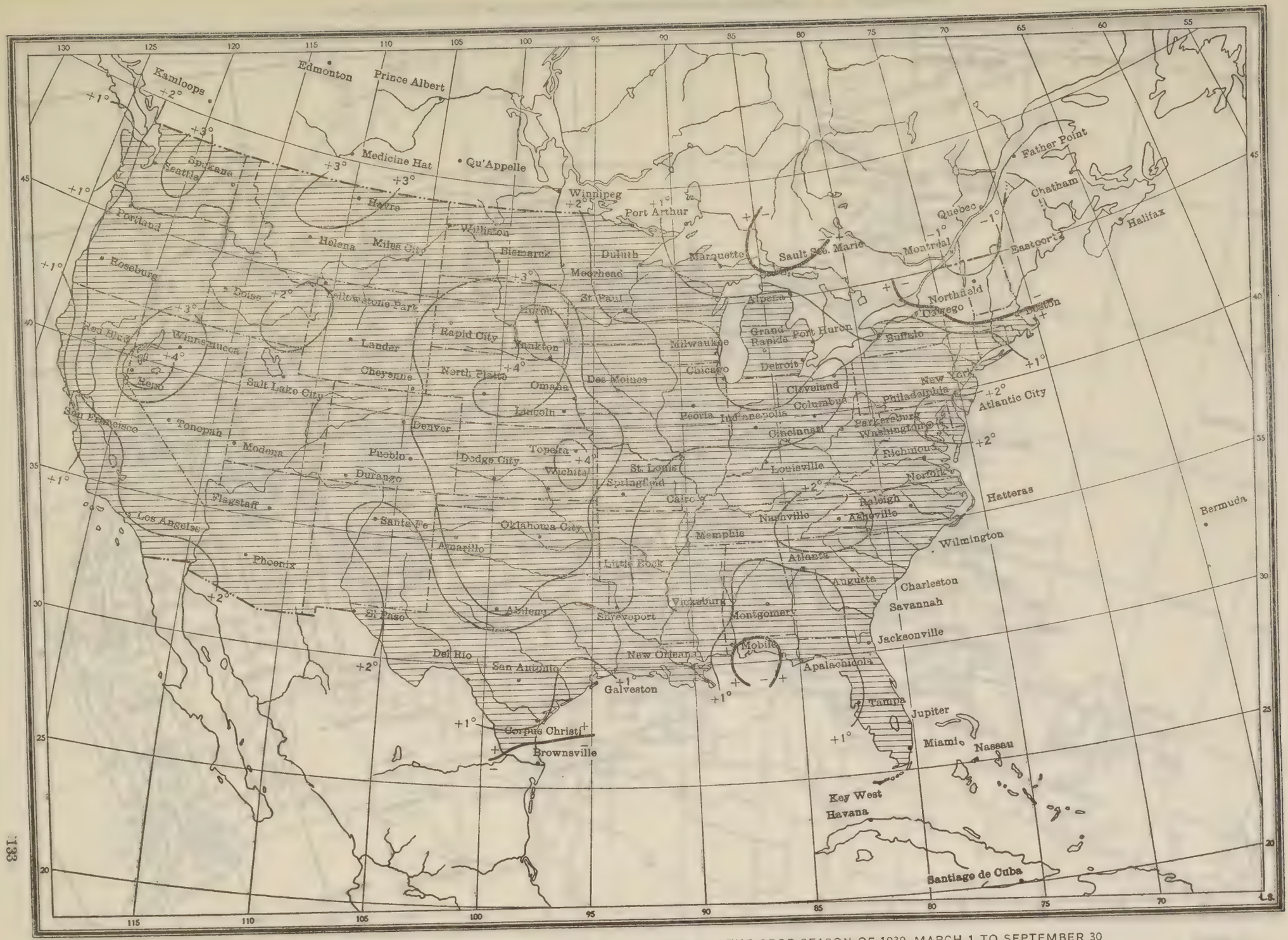
Month	Precipitation			Cloudiness 0 to 10	Wind					Number of days—																		
					By self-register								Precipitation		Snow			Fog				Maximum temperature			Minimum temperature		
	Total	Maximum in 24 hours	Total snowfall		Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Moderate	Thick	Dense	32° or below	90° or above	95° or above	32° or below	0° or below	Thunderstorm
	In.	*In.*	*In.*		*Mi.*		*Mi.*																					
January	3.23	0.86	9.8	6.1	6.2	NW.	33	SE.	1	12	4	15	13	13	10	7	0	2			1	13	0	0	23	0	0
February	8.08	1.41	18.9	7.1	10.7	SW.	48	SW.	2	6	5	17	22	15	15	8	0	0			0	3	0	0	17	0	0
March	4.62	1.06	6.8	6.7	11.5	NW.	40	SW.	6	11	2	18	17	15	19	7	0	4			1	7	0	0	21	0	0
April	4.65	1.26	18.8	6.7	9.9	NW.	40	W.	4	7	7	16	15	14	16	13	1	2			0	0	0	0	24	0	0
May	3.97	1.29	T	7.0	7.0	NE. NW.	33	W	2	7	7	17	17	14	2	0	0	1			0	0	0	0	4	0	0
June	1.94	0.62	.0	7.7	5.0	N.	23	SE.	0	5	3	22	15	9	0	0	0	3			2	0	0	0	0	0	0
July	3.58	1.13	.0	7.7	5.5	S. SE.	23	S.	0	5	5	21	16	11	0	0	0	3			1	0	0	0	0	0	0
August	5.86	2.06	.0	7.0	6.3	SW. S.	22	SE.	0	4	7	20	22	16	0	0	0	3			0	0	0	0	0	0	0
September	11.51	4.48	T	6.6	8.8	S.	30	NW.	0	6	11	13	14	12	1	0	0	7			1	0	0	0	0	0	0
October	4.03	1.08	1.3	6.6	9.2	NW.	46	SW.	1	8	5	18	13	9	6	3	0	0			6	0	0	0	14	0	0
November	5.92	1.46	6.9	7.0	7.1	NW.	45	NW.	1	7	7	16	19	14	17	9	0	1			0	8	0	0	20	0	0
December	9.65	1.56	8.3	7.7	7.5	NW.	31	SE.	0	5	6	20	22	19	15	10	0	1			0	6	0	0	21	0	0
Year	67.04	4.48	70.8	7.0	7.9	NW.	48	SE.	17	83	69	213	205	161	101	57	1	27			12	37	0	0	144	0	0

NOME, ALASKA

[H=17 ft.; H_b=22 ft.; H_t=5 ft.; H_r=55 ft.; H_a=60 ft.]

January	0.26	0.18	2.5	5.2	7.1	N.	38	N.	3	11	9	11	4	3	10	4	0	1	0	0	1	31	0	0	31	26	0
February	.95	.35	10.7	7.7	12.6	NE.	36	N.	1	5	4	19	16	7	21	16	0	6	4	1	1	24	0	0	28	8	0
March	.62	.22	7.0	4.6	7.8	NE.	33	W.	1	17	3	11	8	5	11	8	0	8	1	0	2	28	0	0	31	24	0
April	1.77	.34	15.8	8.5	14.1	E.	43	N.	6	4	3	23	18	14	25	18	0	6	4	0	0	19	0	0	30	2	0
May	.44	.15	3.0	6.6	7.4	E.	34	N.	2	6	11	14	10	6	14	9	0	7	1	0	4	12	0	0	25	0	0
June	.16	.04	.0	4.7	7.4	W.	22	SW.	0	14	8	8	6	2	0	0	0	5	0	2	2	0	0	0	3	0	0
July	1.68	.90	.0	8.3	10.0	SE.	30	SE.	0	0	9	22	12	6	0	0	0	2	0	0	0	0	0	0	0	0	1
August	2.84	.81	.0	8.7	10.2	N.	35	W.	2	0	5	26	20	13	0	0	0	3	0	0	0	0	0	0	2	0	0
September	2.01	.58	T	8.0	10.9	N.	30	SW.	0	1	7	22	13	9	1	0	0	4	0	0	0	0	0	0	8	0	0
October	.65	.42	1.2	6.0	10.8	N.	42	N.	3	9	8	14	8	4	11	5	0	5	2	1	0	10	0	0	26	0	0
November	.03	.01	.5	4.7	7.4	N.	30	N.	0	13	8	9	3	0	12	3	0	1	0	1	0	30	0	0	30	10	0
December	.33	.10	3.5	7.4	5.6	N.	30	SE.	0	5	8	18	11	4	18	11	0	1	0	0	0	31	0	0	31	25	0
Year	11.74	0.90	44.2	6.7	9.2	N.	43	N.	18	85	83	197	129	73	123	74	0	49	12	5	10	185	0	0	245	95	1





DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1939, MARCH 1 TO SEPTEMBER 30

Shaded portions show excess (+) and unshaded portions deficiency (−) of temperature. Figures show mean daily excess (+) or deficiency (−) of temperature over areas bounded by light lines

CHART 2

TOTAL PRECIPITATION, INCHES, FOR THE CROP SEASON OF 1939, MARCH 1 TO SEPTEMBER 30

DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1939, MARCH 1 TO SEPTEMBER 30

Shaded portions show excess (+) and unshaded portions deficiency (—) of precipitation. Figures show, in inches, amount of excess or deficiency of precipitation over areas bounded by light lines

TOTAL PRECIPITATION, INCHES, FOR THE YEAR 1939